

SCHOOLTIME

Compositions

Name Field Book

School Flat Tops

Grade Aug 1982

9³/₄ in. x 7¹/₂ in.

54 Leaves

Roaring Spring Blank Book Co. Roaring Spring, Pa. - 16673

Date | | |

NAME _____ ADDRESS _____

Fm G Thompson River Trail, off the main highway

Activities in Colorado

- Thurs 15 - Visited Roger Anderson, U. of Denver
 Fri 16 - Visited Dennis Haddow, Forest Service
 & drove to North Fork Camp. Flat Tops.
 Sat 17 - Hiked 10 mi to hill 11369 above Wall Lake (N).
 Sun 18 - Curated 150 collections made on 17th & rest.
 Mon 19 - ~~Trappers~~ Trappers Lake Talus - 3 Q's + Wall Lake Talus!
 Tues 20 - Chinese wall - to Meeker Motel.
 Wed 21 - Laundry, drive to Aspen for Teep, to Meadow Lake.
 Th 22 Meadow Lake → Blair Mtn. Samples + 1 Q.
 Fri 23 Meadow Lake → Crater Lake " "
 Sat 24 Little collecting at Crater Lake & Meadow. Return Teep to Aspen then to motel & rifle.
 Sun 25 Day off! then to Marvins C G.
 Mon 26 Hike to Slide Lake, good nest sample; some curating.
 Tues 27 Curate all day (but rain interferes!)
 Wed 28 rain to Meeker - laundry → to sleepy Cat, finish curating.
 Th 29 Trappers with Dennis, to South Fork, collect linestones 3-5.
 Fri 30 Canyon walk South Fork.
 Sat 31 Curate all day at miserable South Fork campsite.
 Sun 1 Break camp & drive to Deep Lake - spectacular views!
 Mon 2 [windy mite - rain] go to Indian Camp Pass - volcanics + limestone all day.
 Tues 3 Indian Camp to Sweetwater - curate all afternoon.
 Wed 4 To Steamboat Springs.
 Thurs 5 Trip to Zirklo, then to Stillwater (cold!)
 Fri 6 Trip up Derby Trail, coll. then to Meeker & Rifle via Craig.

150
128
275
333
20
320

discuss relative rates change expected

change or deterioration in floristic composition

2. high pollution 5-10 years.

2 Oct. 1982 - new series

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

South Fork localities 29, 30, 31 July

1.1 mi E from mouth of Spring Creek

Q 1

1.0 mi E from mouth of Spring Creek

Q 2

1.0 mi E from mouth of Spring Creek

Q 3

1.0 mi E from mouth of Spring Creek

Q 4

1.0 mi E from mouth of Spring Creek

Q 5

1.0 mi E from mouth of Spring Creek

Q 6

1.0 mi E from mouth of Spring Creek

Q 7

1.0 mi E from mouth of Spring Creek

Q 8

1.0 mi E from mouth of Spring Creek

Q 9

1.0 mi E from mouth of Spring Creek

Q 10

1.0 mi E from mouth of Spring Creek

Q 11

1.0 mi E from mouth of Spring Creek

Q 12

1.0 mi E from mouth of Spring Creek

Q 13

1.0 mi E from mouth of Spring Creek

Q 14

area near - 5891 - LOS

- 1 *Lecidea tessellata*
- 2 *X. wyomingica*
- 3 *Candel. rosulans*
- 4
- 5
- 6
- 7

South
Fork
Trail

South Fork localities 29, 30, 31 July

1. 1 mi E from wilderness boundary,
large batholith exposures with scrub-oak
& spruce.
- 1.0 mi - 1st batholith granite exposure + erratics
± shaded in parts
- ca. 5 mi aspen - spruce
- 1-2 & near wilderness boundary - moist
spruce - ash talus area, scattered
dolomite & sandstone, rotting logs
- at campsite - spruce forest with open
patches with *Peltigera* - *Cladonia* mats.

✓ on 29th trail to Spring Cave - oak, *Juniper*
along trail, steep virgin limestone cliffs
at cave.

July 18, 08, P.S. at local spot

1. *Lepidodendron* ... 3 in 1

2. *Strophomena* ...

3. *Calymene* ...

4. ...

5. ...

6. ...

7. ...

... in 2

... near S. 1.

... near S. 1.

... near S. 1.

... near S. 1.

... near S. 1.

... near S. 1.

... near S. 1.

... near S. 1.

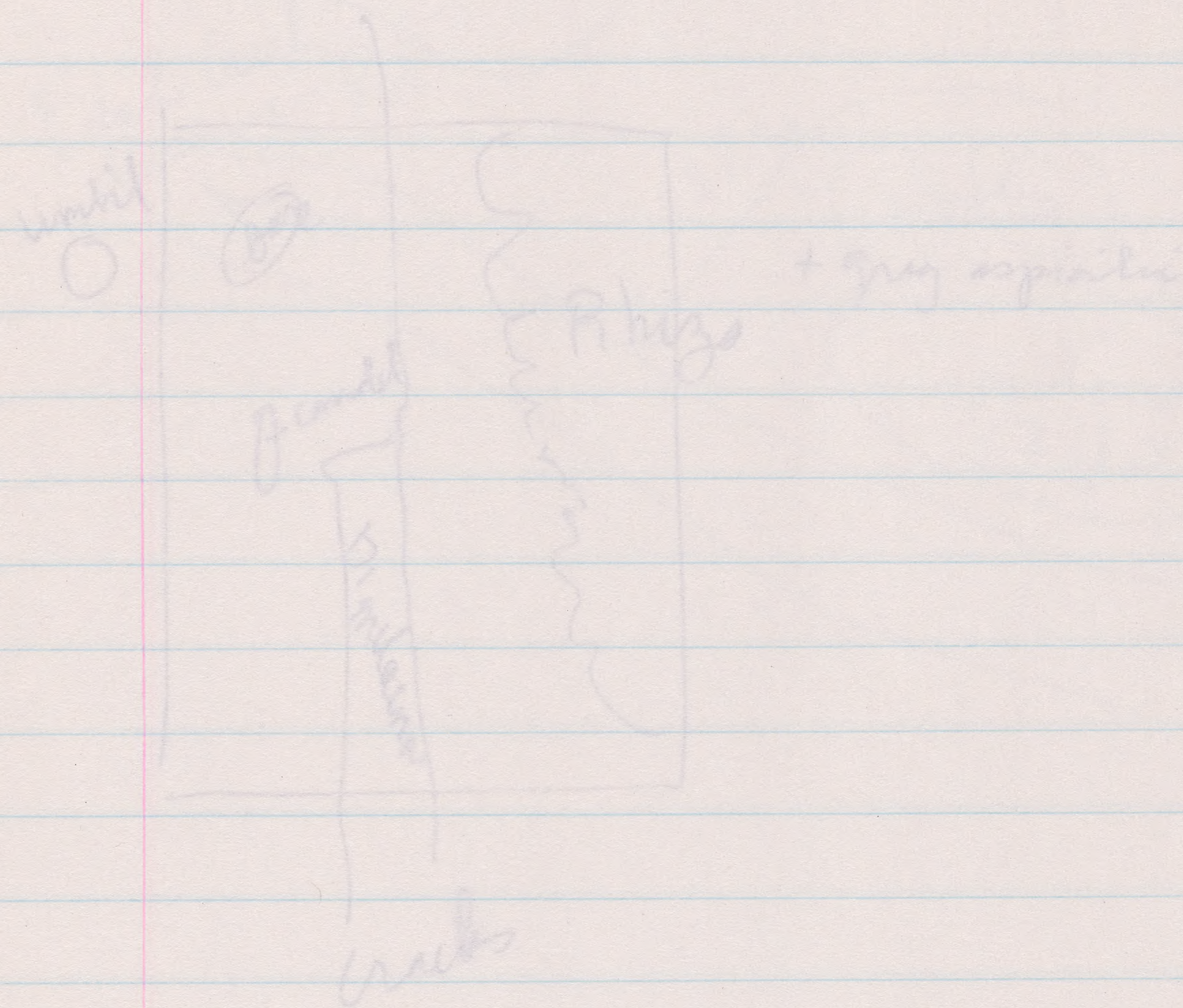
Indian Camp Pass. 2 Aug.

1. Hill 10666 NW of Indian Camp Pass.
Rubble - volcanic cliffs along rim to S & W.
Much Calo-Xanth. Rhinoplace. Elev 10666 ft.
2. Ca $\frac{1}{2}$ way up Hill 10666
3. Limestone outcrops NW of Wilderness check-in Station. ca 9800' elev.
4. Sample site between Wilderness check in station & creek - glacial erratics 9750'

2.14 R. 14

3.3 mi from Jet forest road
on Fox Creek Reservation Road

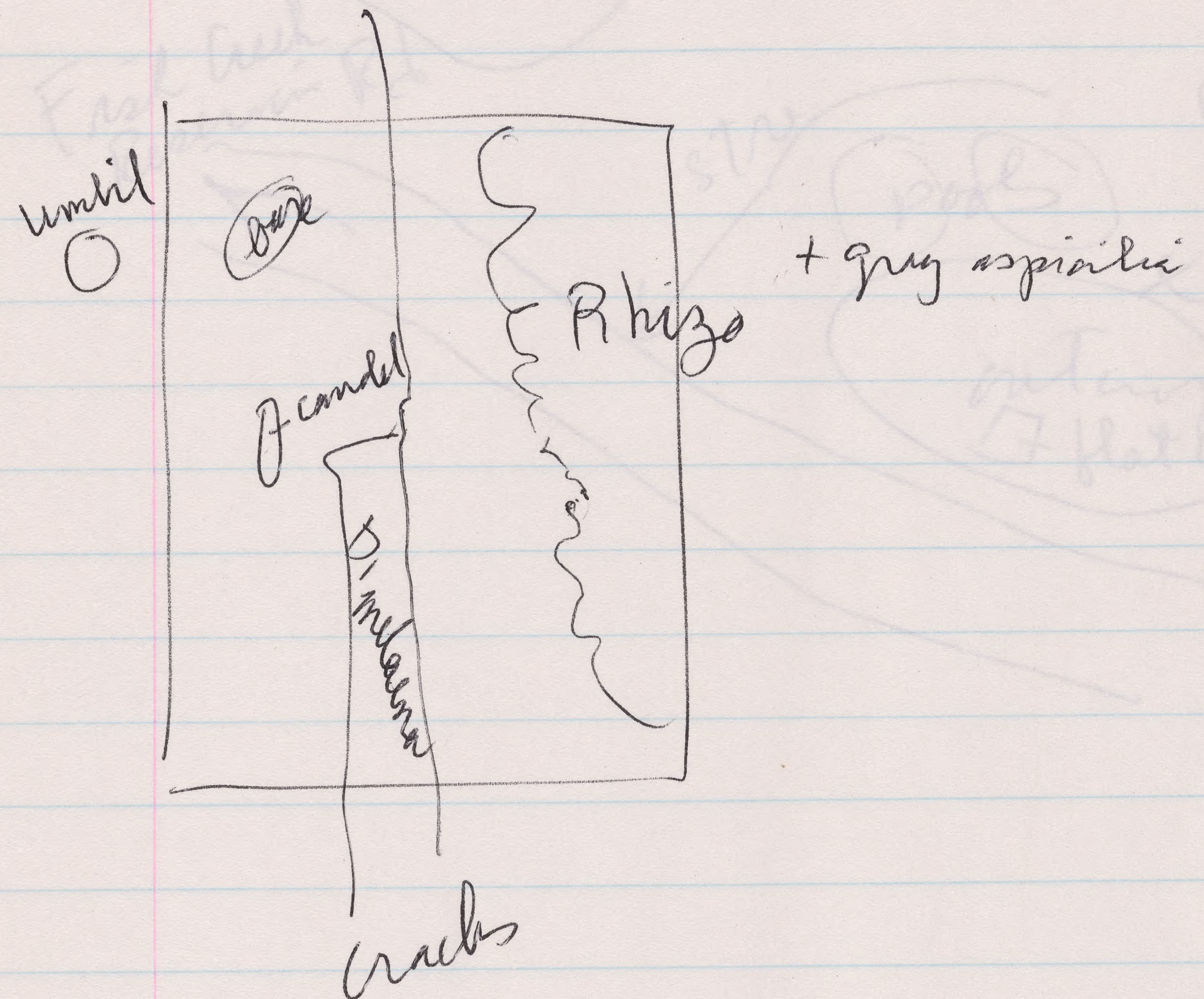
23-27 R. 14



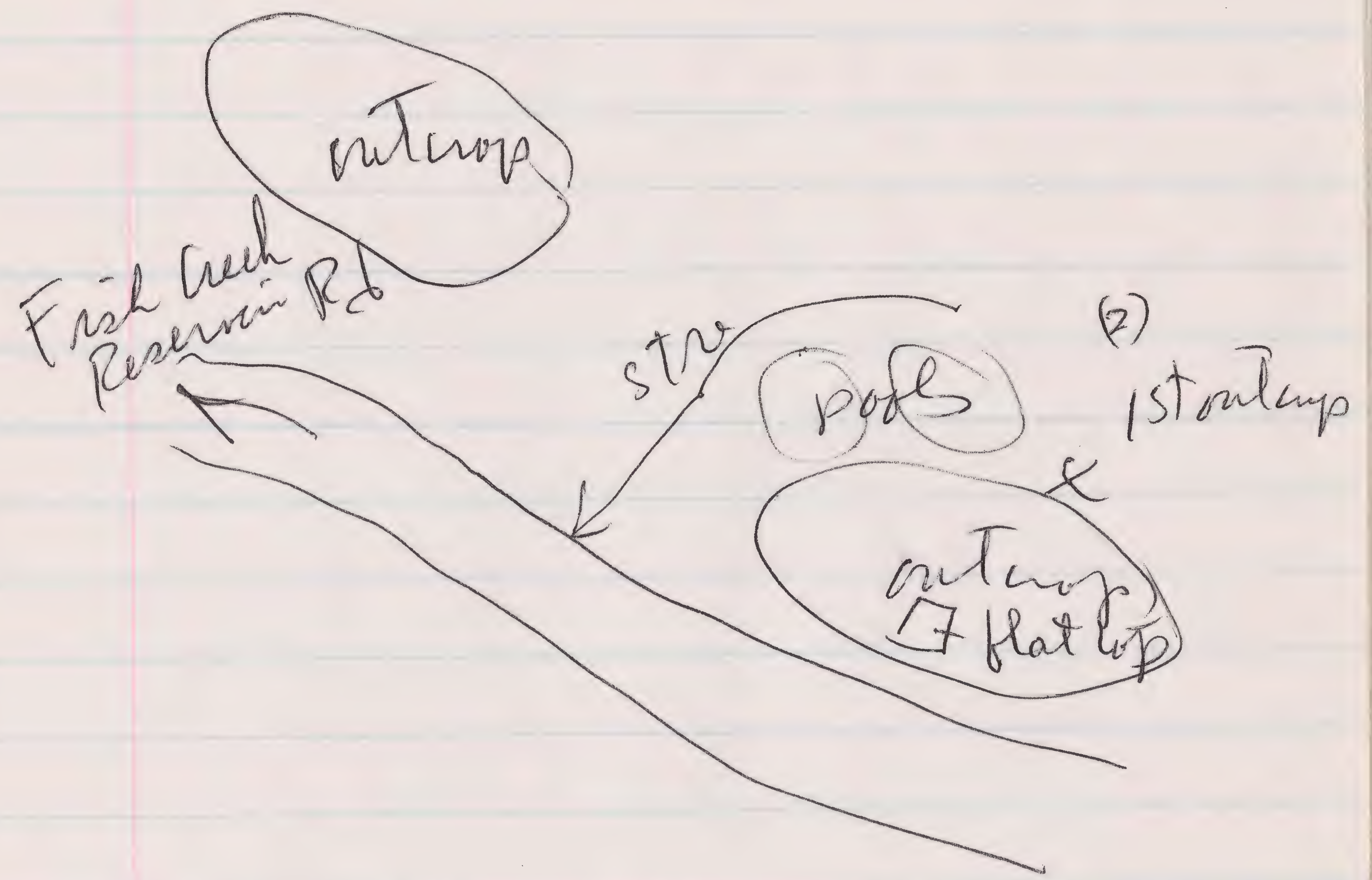
Zirkle Q14

3.3 mi from Jct forest road
on East Creek Reservoir Road

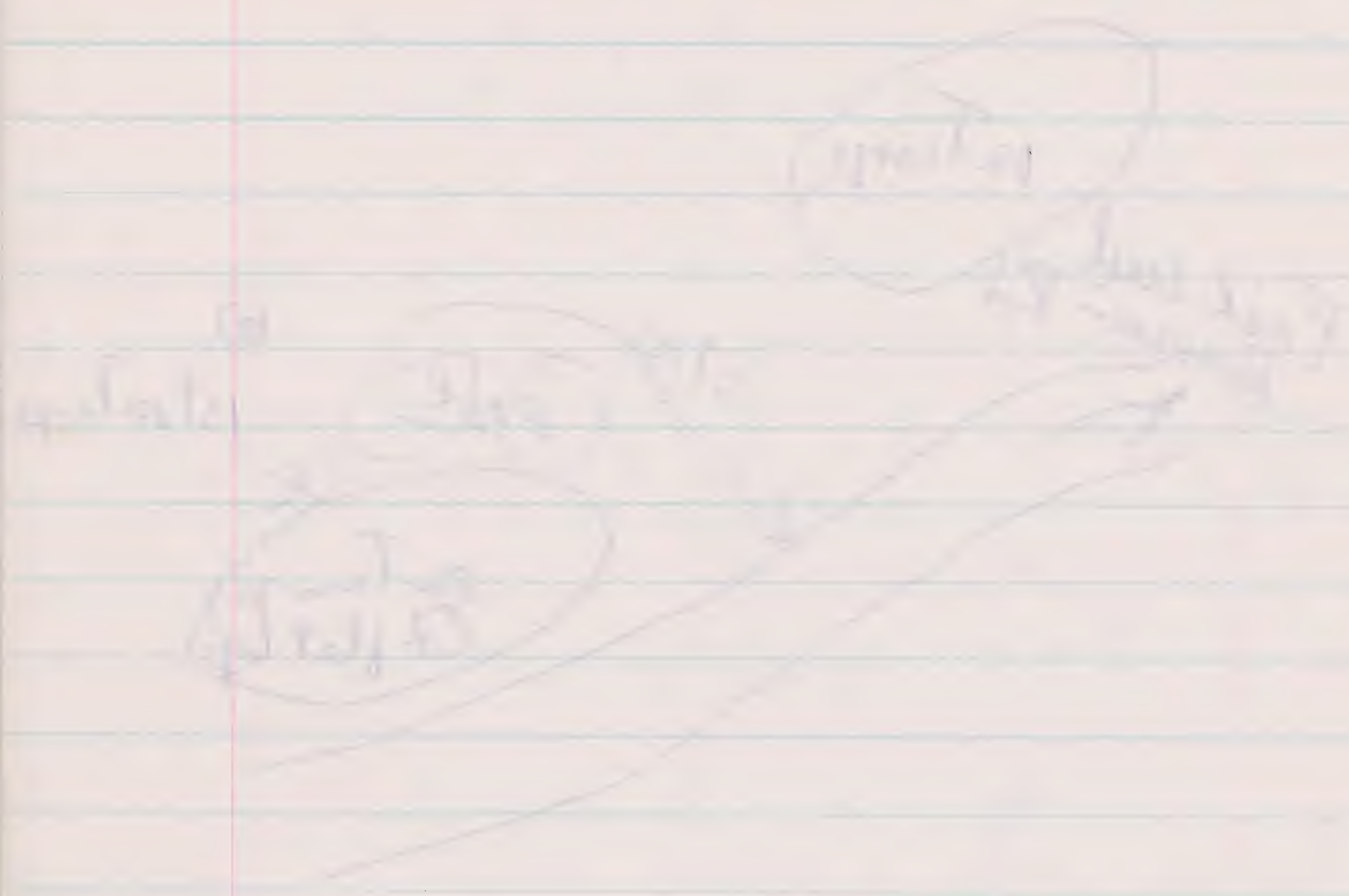
23-27 Q14

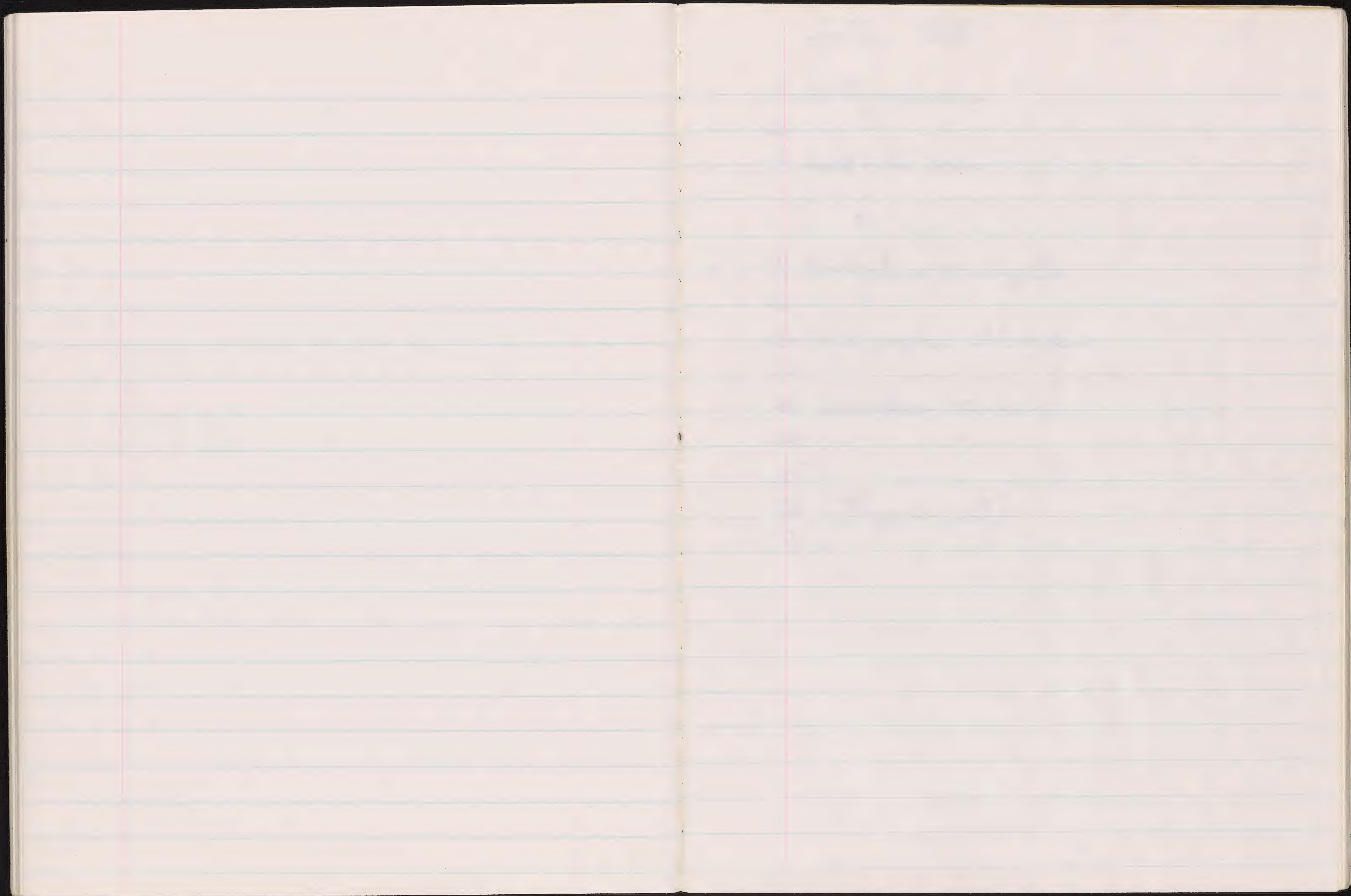


Q14



140





fotos Roll 1

- 1 *Peltigera venosa*
- 2 "
- 3 Wall Lake area



- 19 *Caloplaca trachyspha*
- 20 "
21. *Acarospora chlorophana*
- 22 " "
23. *Dimelasma oreina*
24. " "
- 25 } *Physcia* (coll.)
- 26 }
- 27 }

shots taken on
picnic table.

Roll 1

- 29-30 Lecanora foto 1
31-32 Lecanora foto 2
33-34 Physcia foto 3
{ 35 Campite
36 "

Roll 2

- 2-3 Xanthoria sorediata foto 4
4-5 Lecidea atrobrunnea foto 5
6-7 Lecanora sp. foto 6
8-9 Lecanora muralis foto 7
10-11 $\longleftrightarrow$ foto 8
12-13 Lecanora rugicruda foto 9
14-15 Lecanora muralis foto 10
16-17 Physcia — foto 11
18-19 Caloplaca foto 12
20-21 Physcia ruscigena foto 13
22-23 Aspicilia foto 14
24-25 Rhizocarpon geographicum foto 15
26-27 Lecidea atrobrunnea foto 16
28-29 Lecanora sp. foto 17
30-31 Lecanora varia foto 18

32-33 *Aspicula cingulata* foto 19
 34-35 *Caloplaca* foto 20

- * Roll ① - Wall Lake
- * Roll ② - lichen pix
- Roll 3 + double Trappers Q1-3-7
- * Roll ④ - end Chinese wall (Q4) (up to 19)
 then + Q1!!! + Q8
- [* Roll 5 Q9 Q10 Blair Mtn. new roll
 starting at Merdon Lake
- {roll ⑥} slide Lake double
- {roll ⑦} South Fork double (Q12)
- * Roll ⑦ ^{new roll} Q11 So Fork + Indian Camp Pass
 (end of roll)
- ?? Roll x=9 Zirkle + Stillwater
- Roll 10 in camera
- Roll = Connection

32-33 *aspicula* foto 19
 34-35 *Caloplaca* foto 20
 [Roll 3]

- [16 - *Candelariella* (double exposed?)
- 17 - shot from Cañon 4 Chinese wall Trail
- 25. *Lecleria* in Q7 (mitten sp!)

- Roll 4 - Chinese wall site
- OK 13 *X. wyongzeen*
- 14. } *X. murata* + *L. sp. decu*
- 15 } missing 18-23 should include Trappers Lake Q1
- 24, 25 = Saddle

- Roll 4 OK 29. *Rhizocarpon geographicum* foto
- 30 *Caloplaca* (ghost at 8)
- 31 *Leucina* - white fruticosa - Blair mt
- (32 *Lecleria atrobrunnea* - ghost at 8
- 33
- (34 Endolithic lichen - Blair mt
- 35
- 36
- 37 - *Candelariella* - Blair mt.

Roll 5

12-16 Q 9

17-23 Q 10 Crater Lake

23 - at Meadow Lake CG.

Roll 6 - Slide Lake

2, 3 Dermato minutum

4-8 Scenery at Slide Lake trail

Roll 7 SF valley
double exposed

18 Camdeauella

19 20 21 Lec. alphospl K

22, 23 Xantho

2 May

8.2 11.51

del. 11.51 11.51

2.5 del. 11.51 11.51

del. 11.51 11.51

del. 11.51 11.51

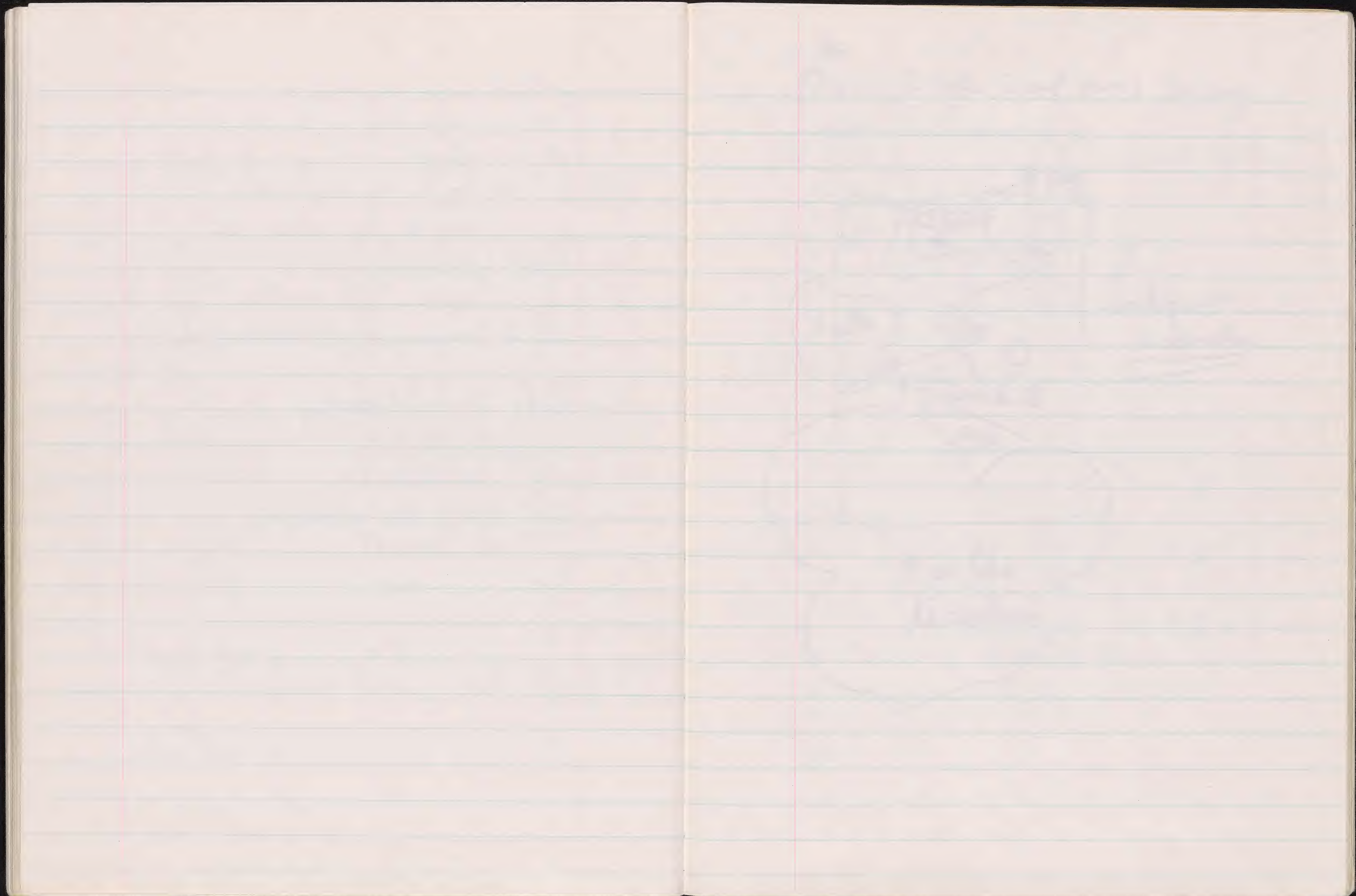
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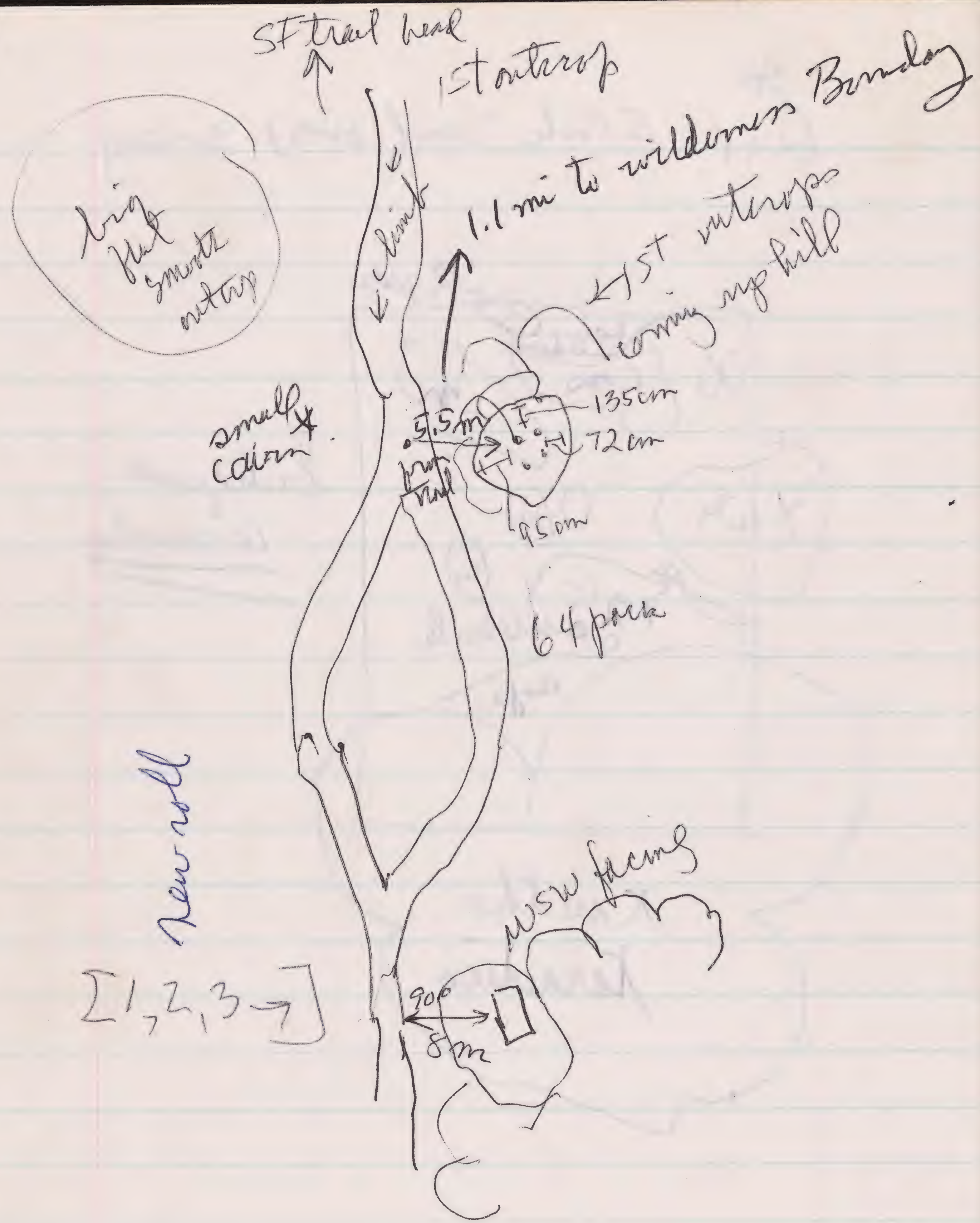
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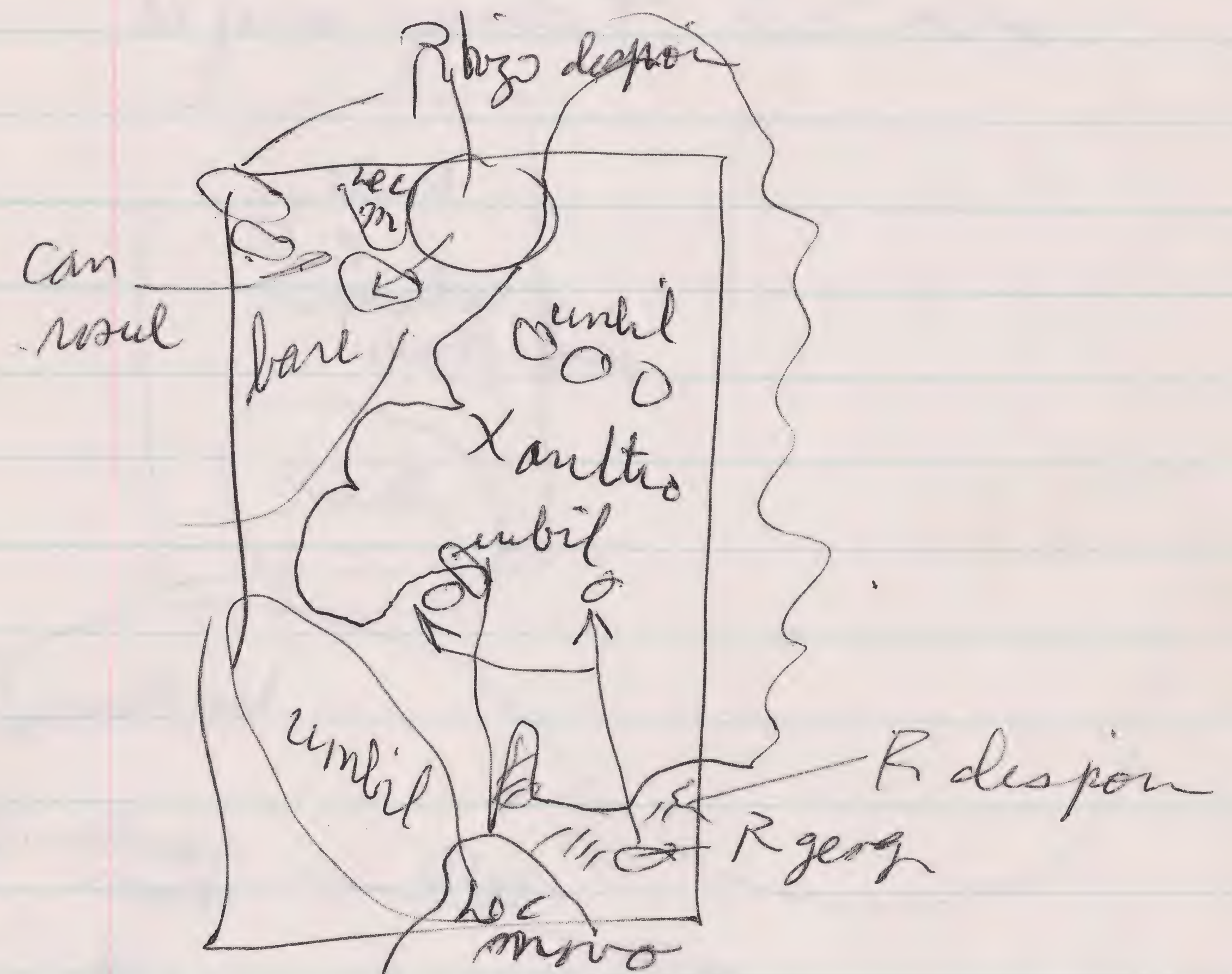
Q 11

S Fork Trail (over) 30 May





Q12 South Fork Trail — mi
from trail head.
64 paces from Q11 going up trail

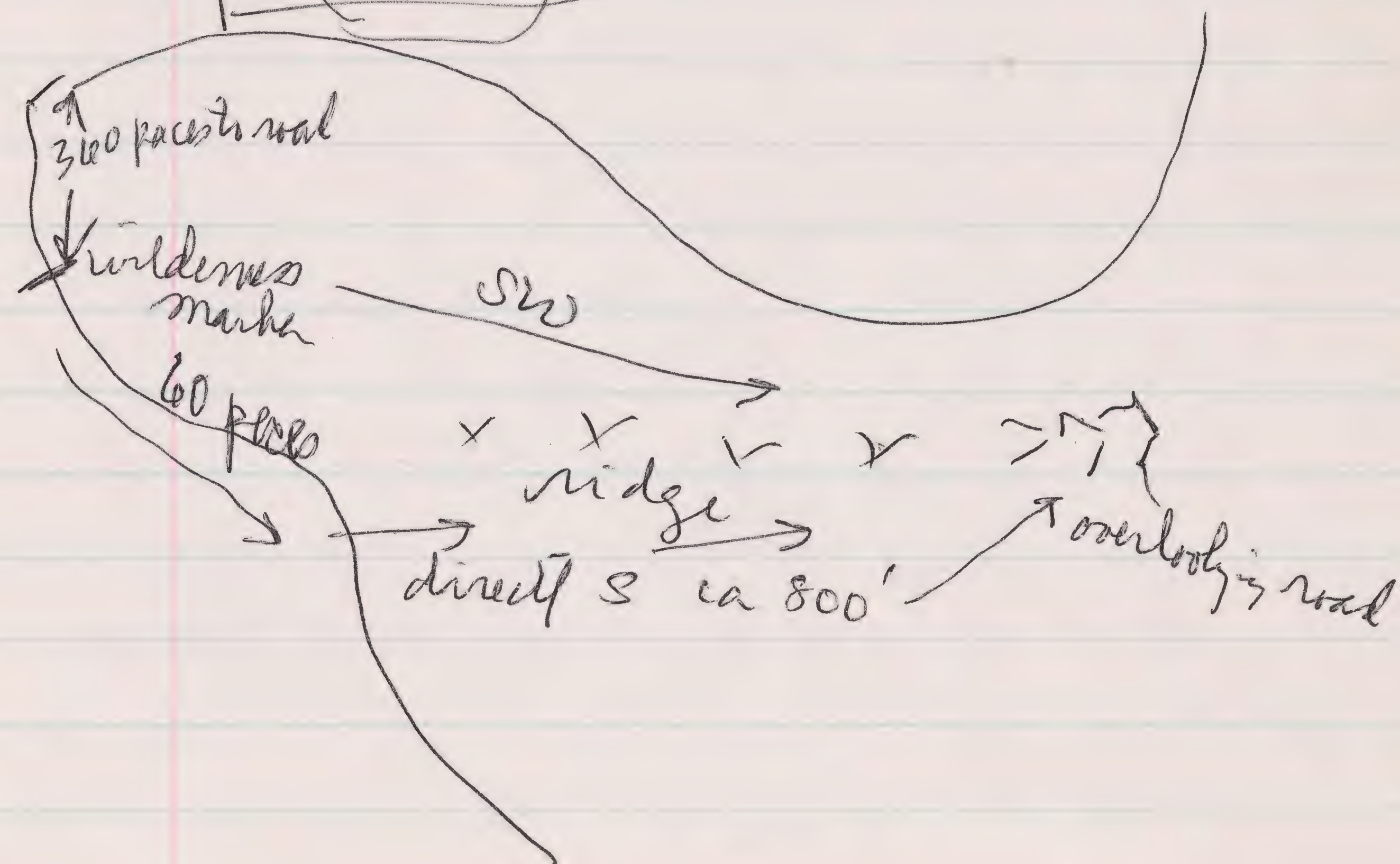
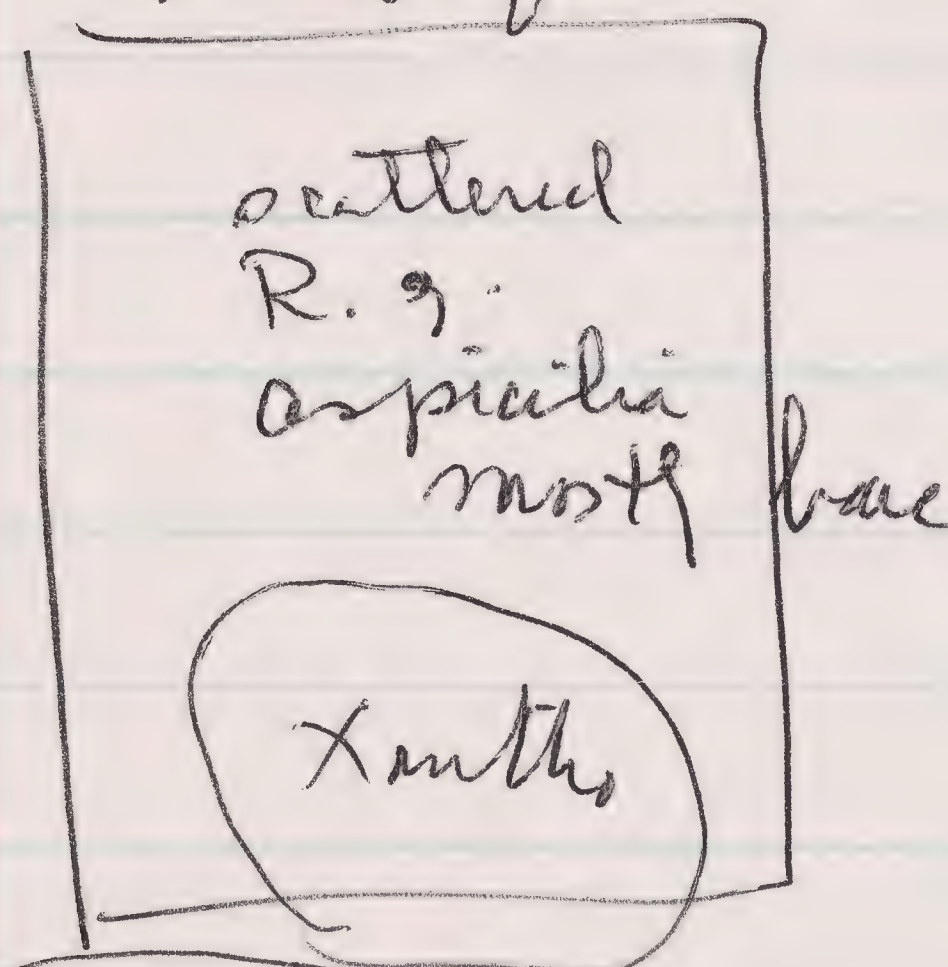


26 roll 7 — from 20 paces
27 from 1-2 m
28 } Q12
29 }

Zirkle 5 July

18, 19, 20 Q 13

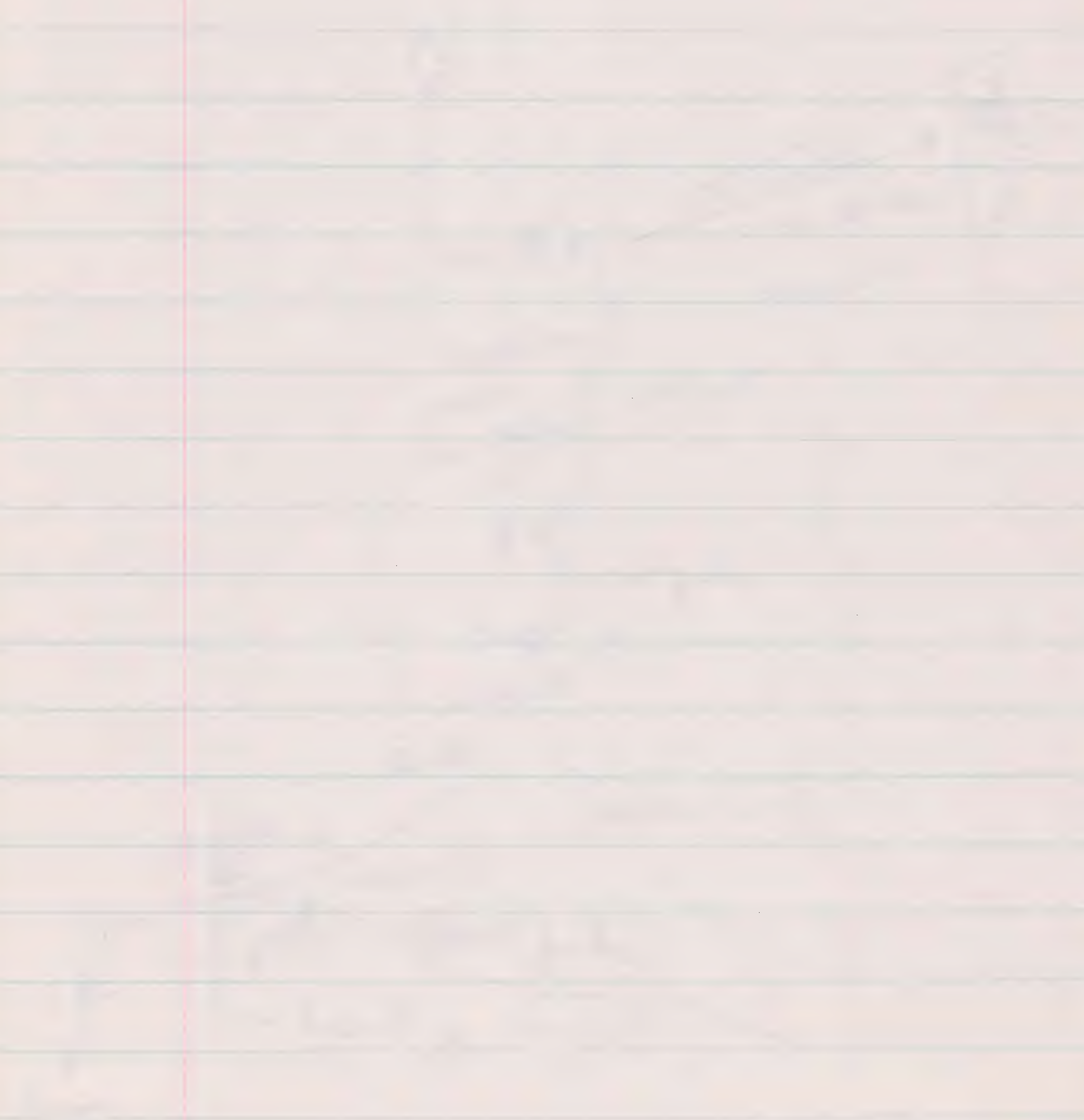
21 aspect taken 20' from N
N facing quadrat ca 15° slope.



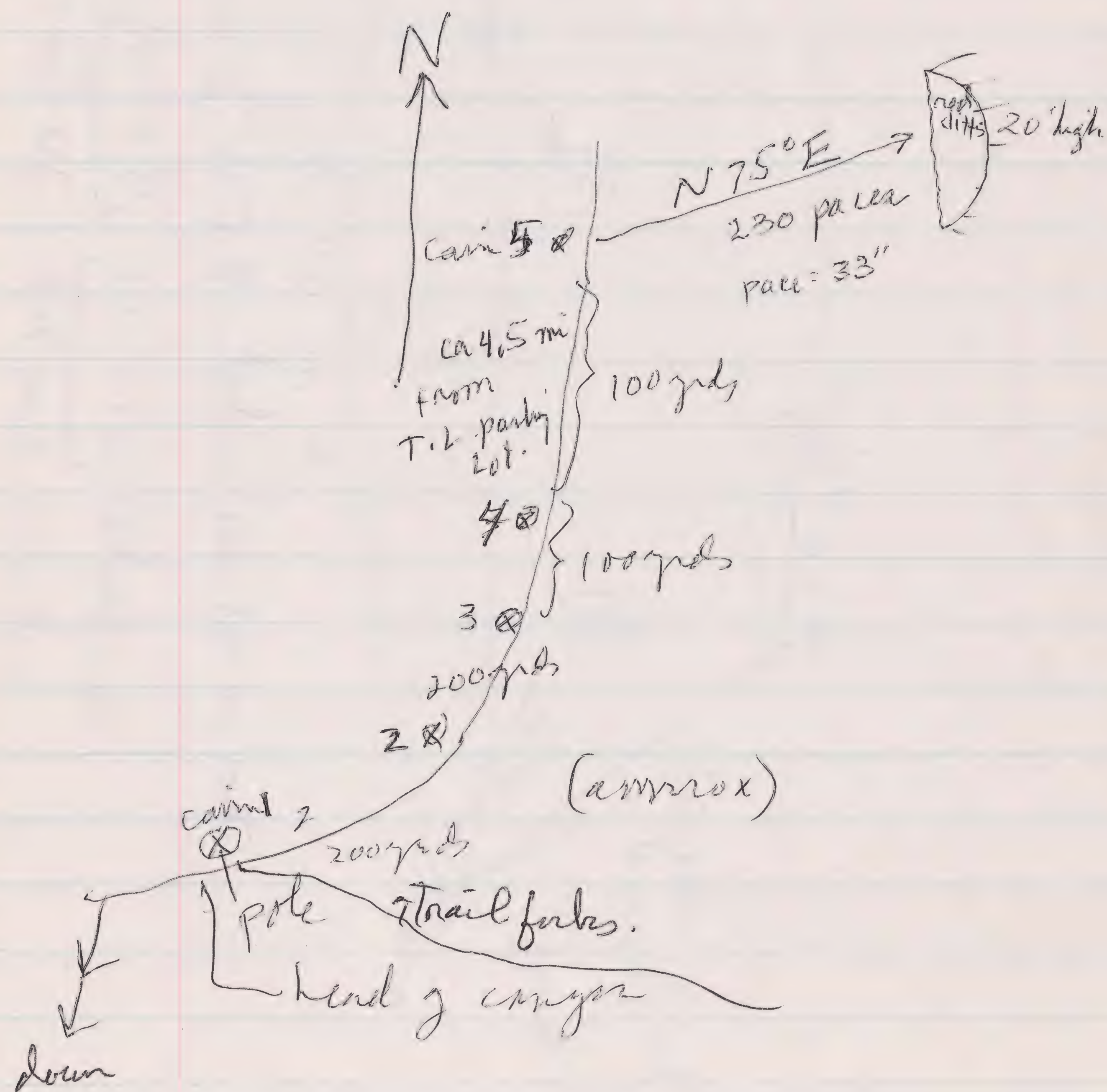
1st 2nd 3rd

24-25-26-27-28-29-30

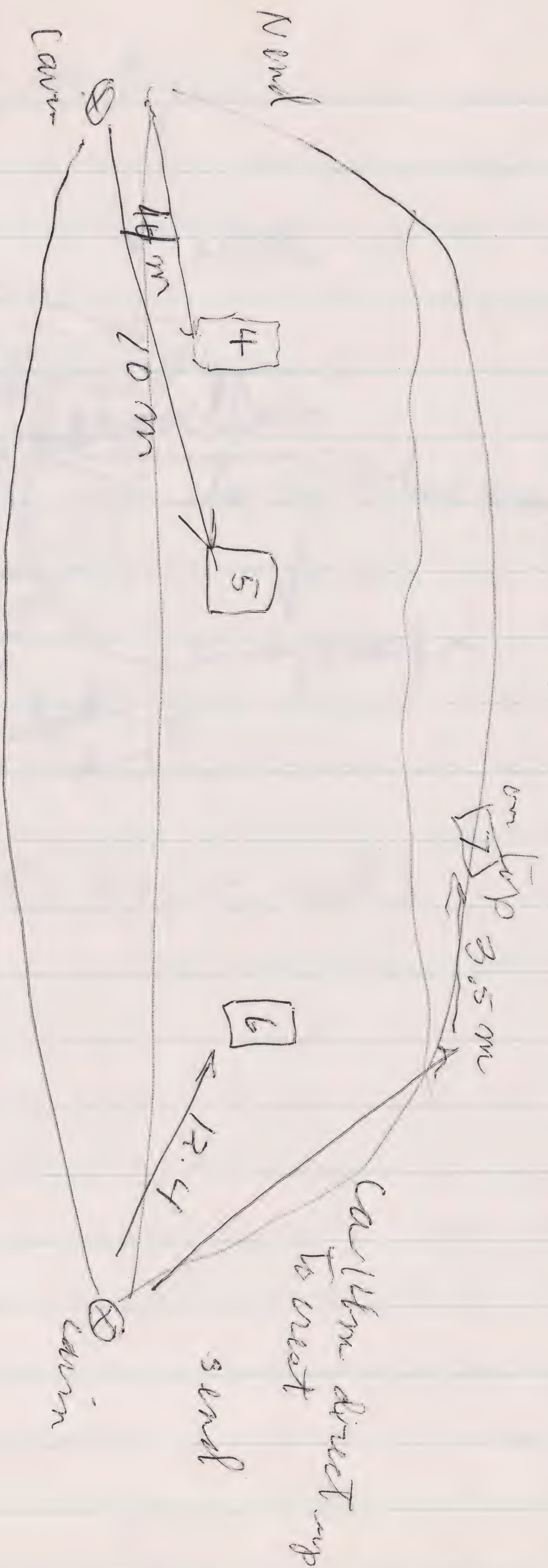
1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th



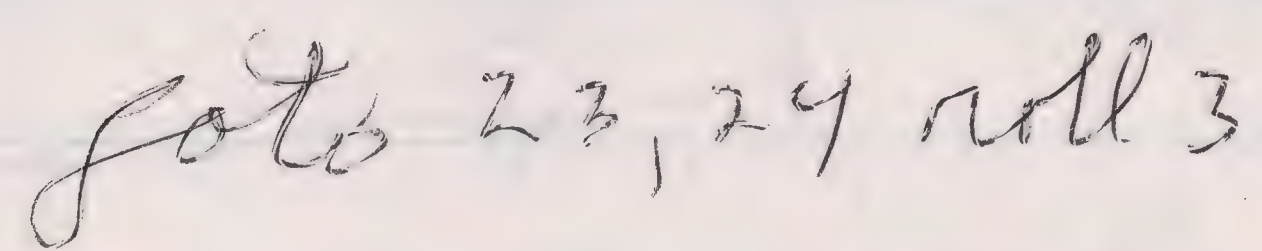
Q4-7: Chinese Wall Trail 20 July 1982



e 410 m →
 foto 4 5 6 7 8 taken on 10 m out
 foto 9 10
 cliff 3 m N Q6
 11 12 closer in
 last base, 1 m N Q4

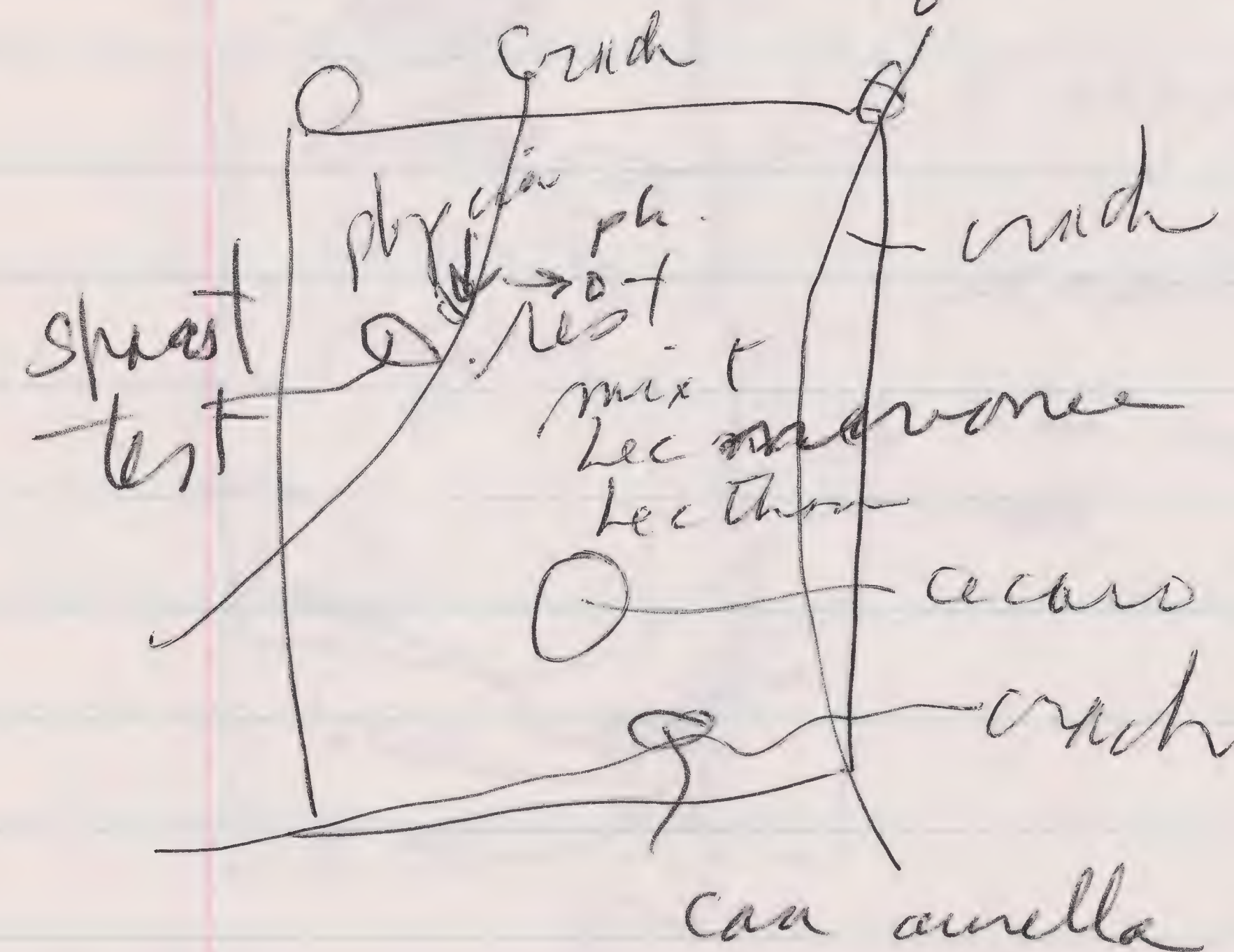


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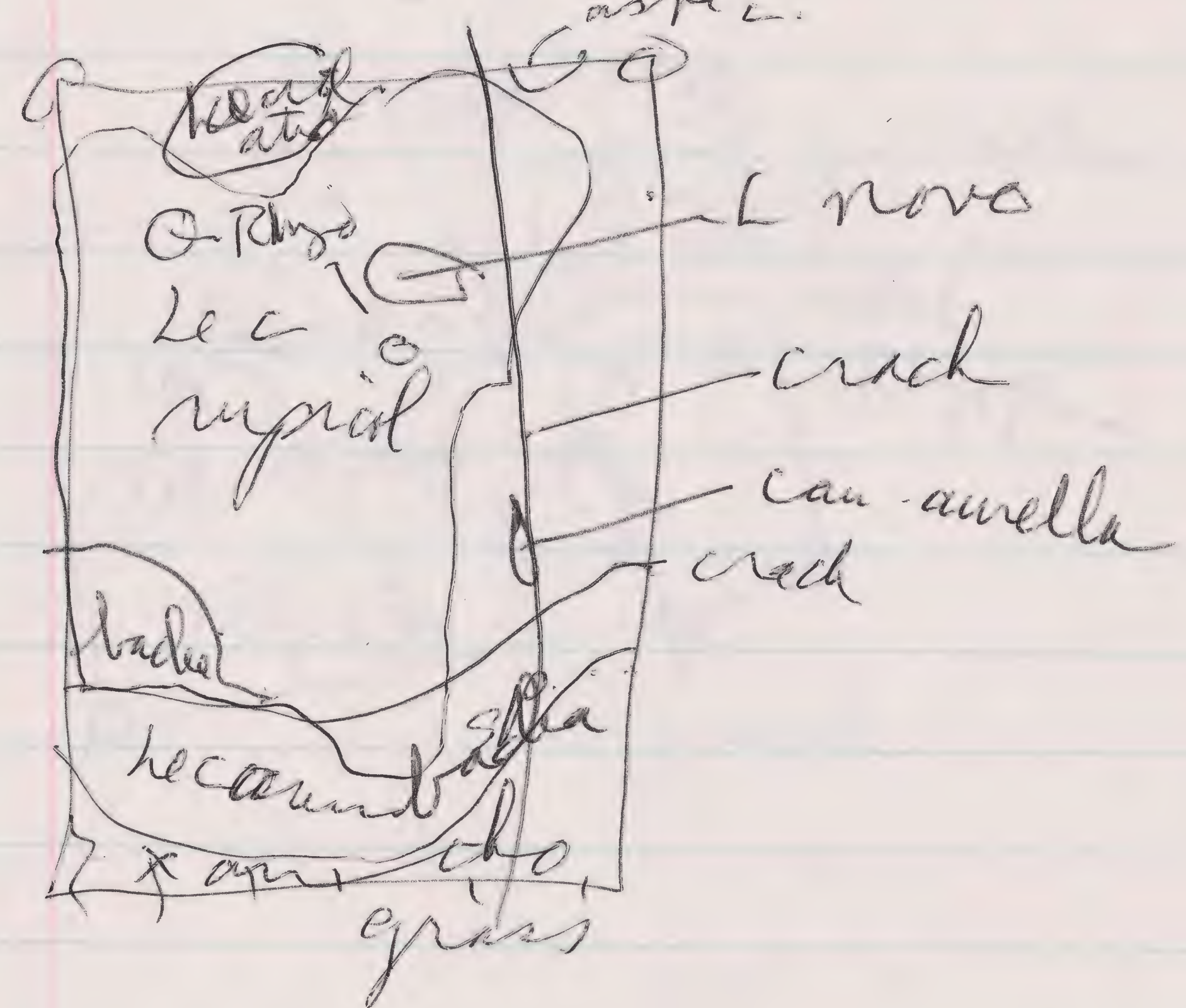


Q 6 (N facing)
foto 29, 30 roll 3
foto 31 taken in front from meta
26

12.4
~~12.4~~ in NNW from S cair



O.S 10 m S of N cairn - 1st face at ground level
 Foto 32, 33 Q.
 Foto 34 35 taken from 9 m mark NW facing
 10 m from N cairn



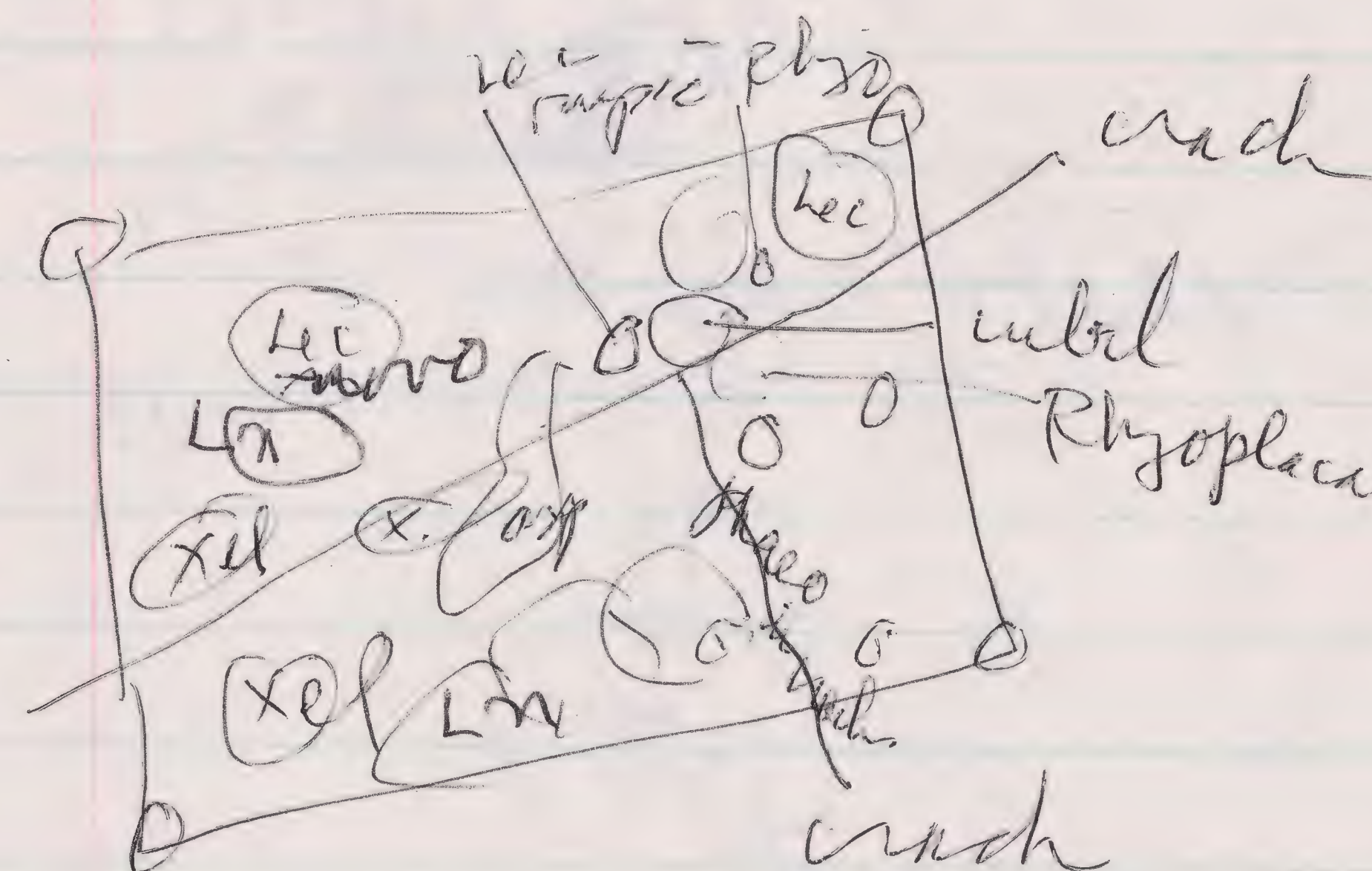
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Q.4 - end flat face 6' up hard to reach
N facing

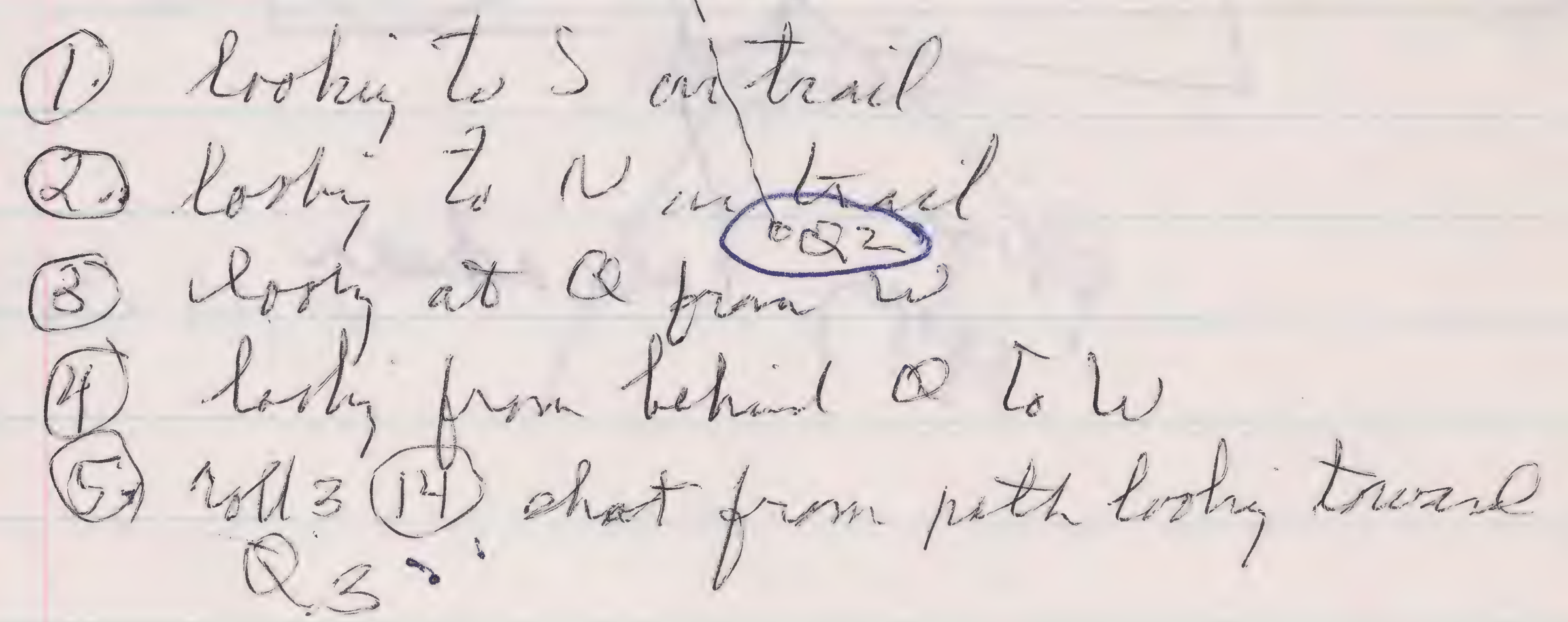
36 roll 3

1, 2, roll 4

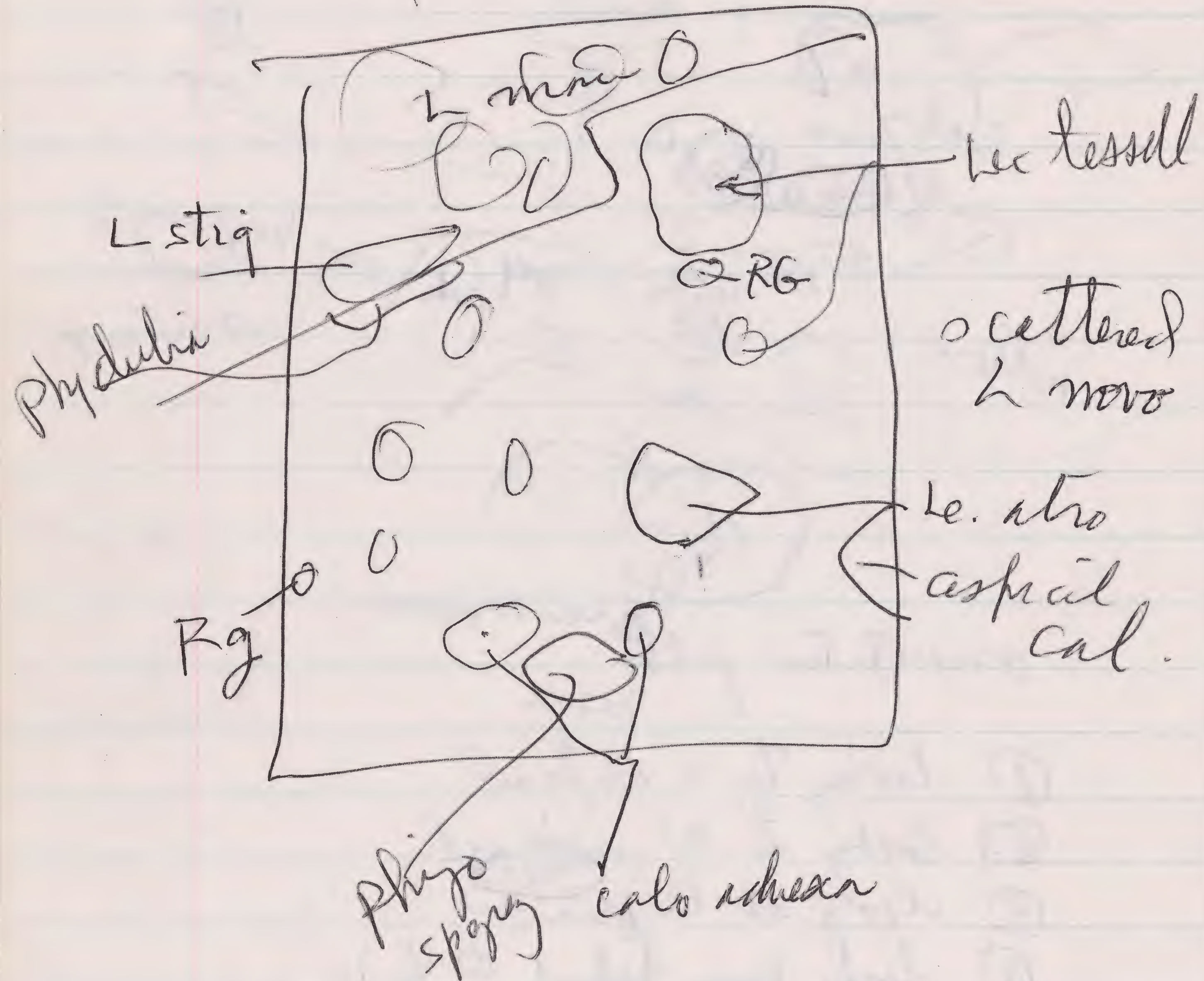
3 - taken from N cairn



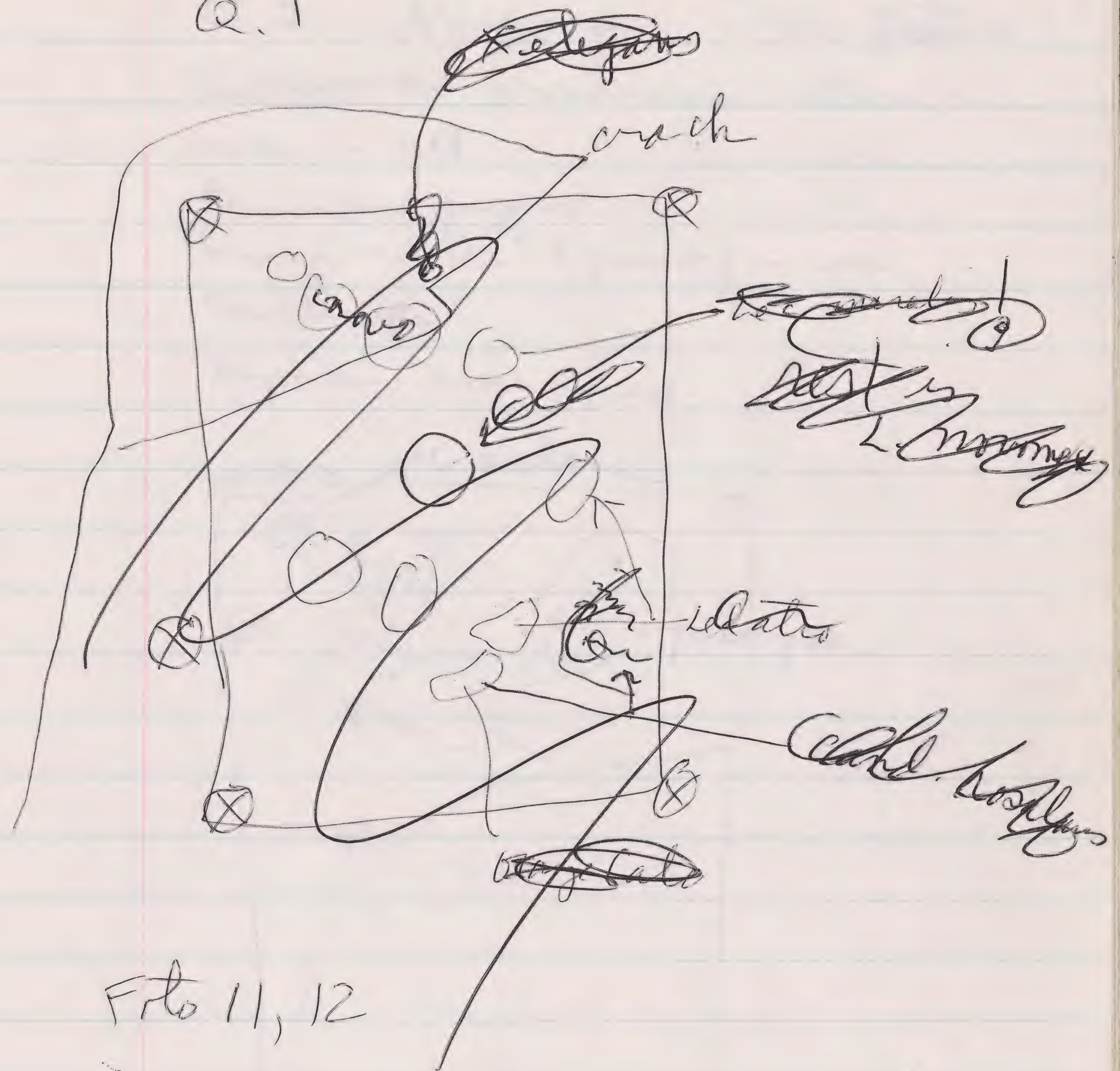
✓



Nov Q 1



Q. 1



N65°E from Q₁

Q₂. Nexposure S44W ~~from~~ ^{to} Q₁

Xanthoparmelia cumberlandia coll.

helia - coll.

Rhizocarpon geographicum

hecavra muralis! (greenish) - coll.

Candelariella

Aspicilia cinnam group

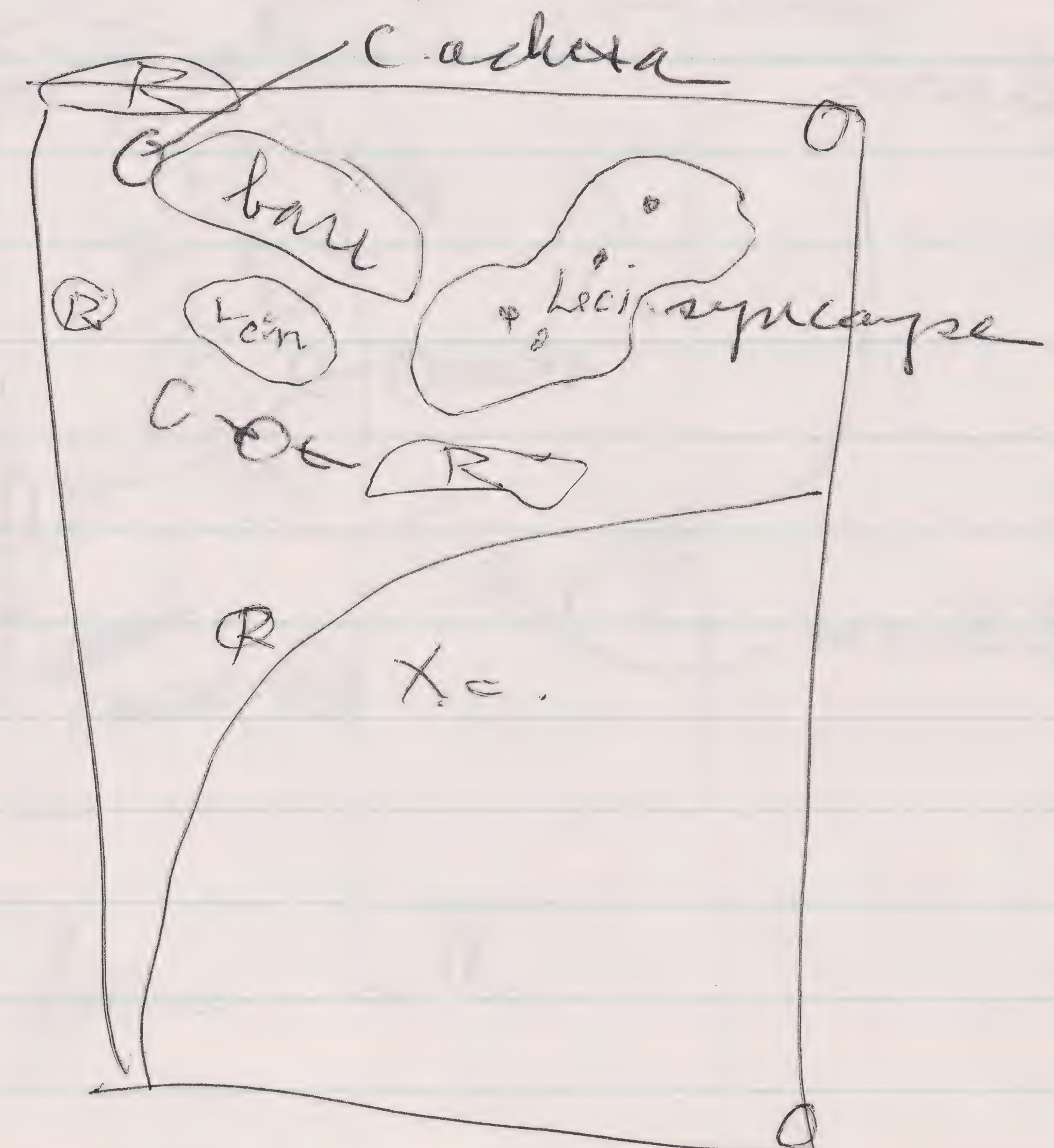
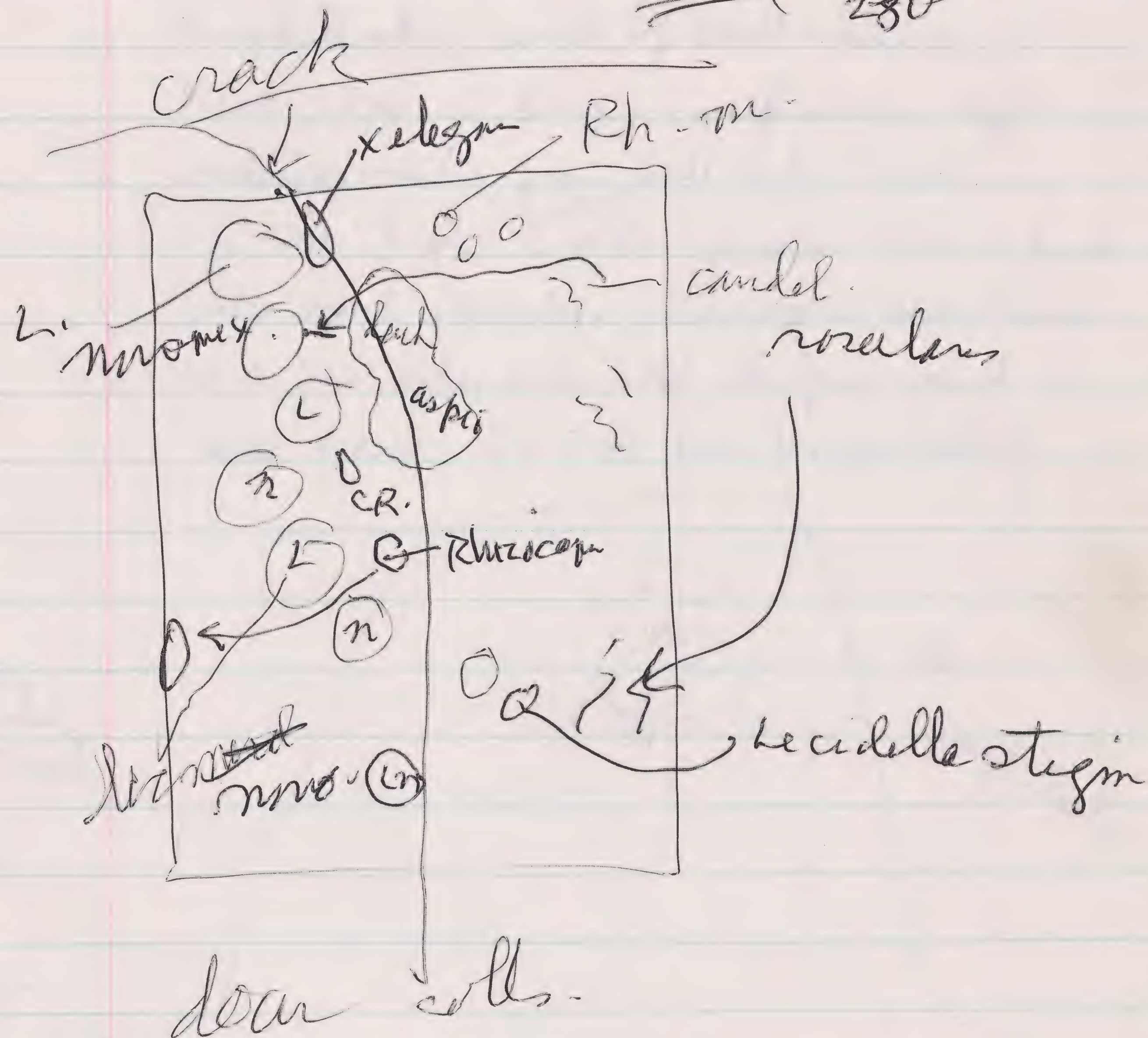


foto 5 & 6
foto 13 general

Feb 7, 8, 14, 45

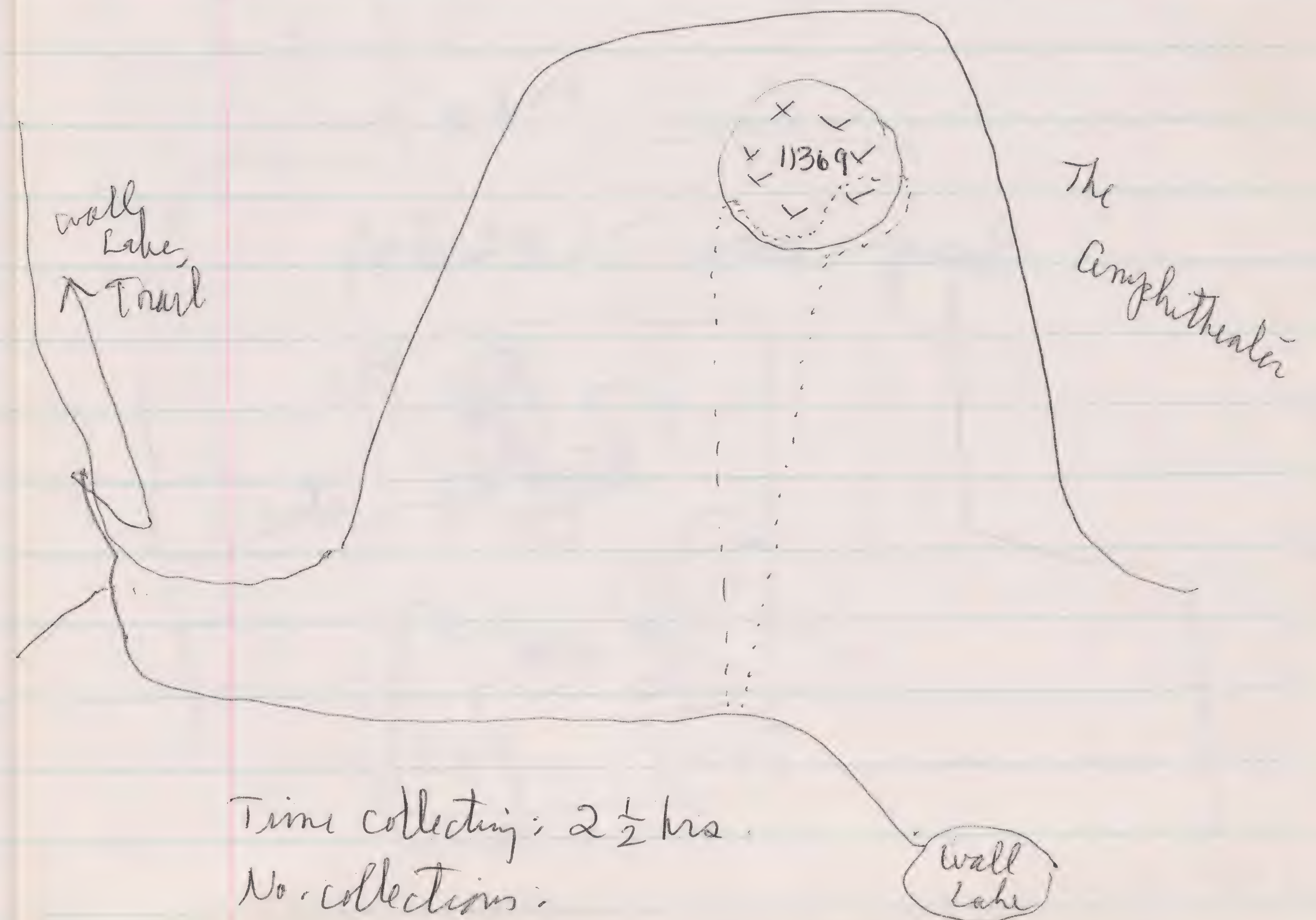
7.6 m from path

NSD (⁰~~nsd~~₂₈₀)^{ic}



Date: 17 July 1982 no Q's but
excellent sample site

Locality: Hill 11369 NW end of the
Amphitheatre, north of Wall Lake on
Flat Tops. A large, conspicuous cliff-
outcrop visible from Wall Lake Trail,
ca 100' high. E^{NE} side appears more exposed
with much Caloplaca, Acaropora, Dimelaena
W & SW sides with soil, ledges, much
more mesic. (ca 5 mi from Trappers Lake)



Saddle at Blair Mtn.

Q 8

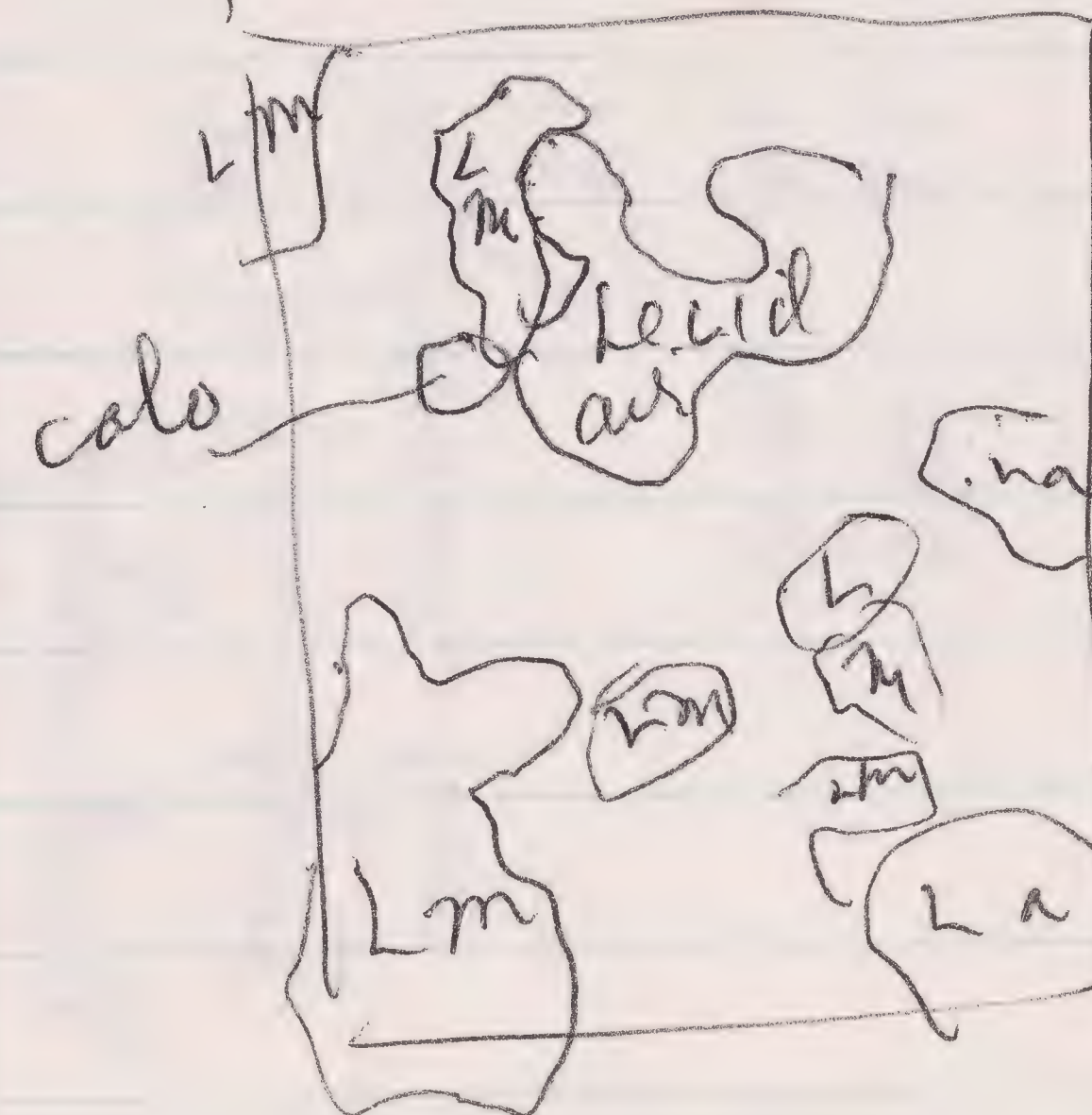
22 July.

26 27, 28
at var. distances

1st flat over hanging ledge
on left. marked with
cairn & painted "8"

J. 604

foto 24, 25 vroll = quadr



Q 9 above Crater Lake

Ca $\frac{1}{2}$ down trail where trail crosses
only talus (quartzite)

foto 12 Q 9

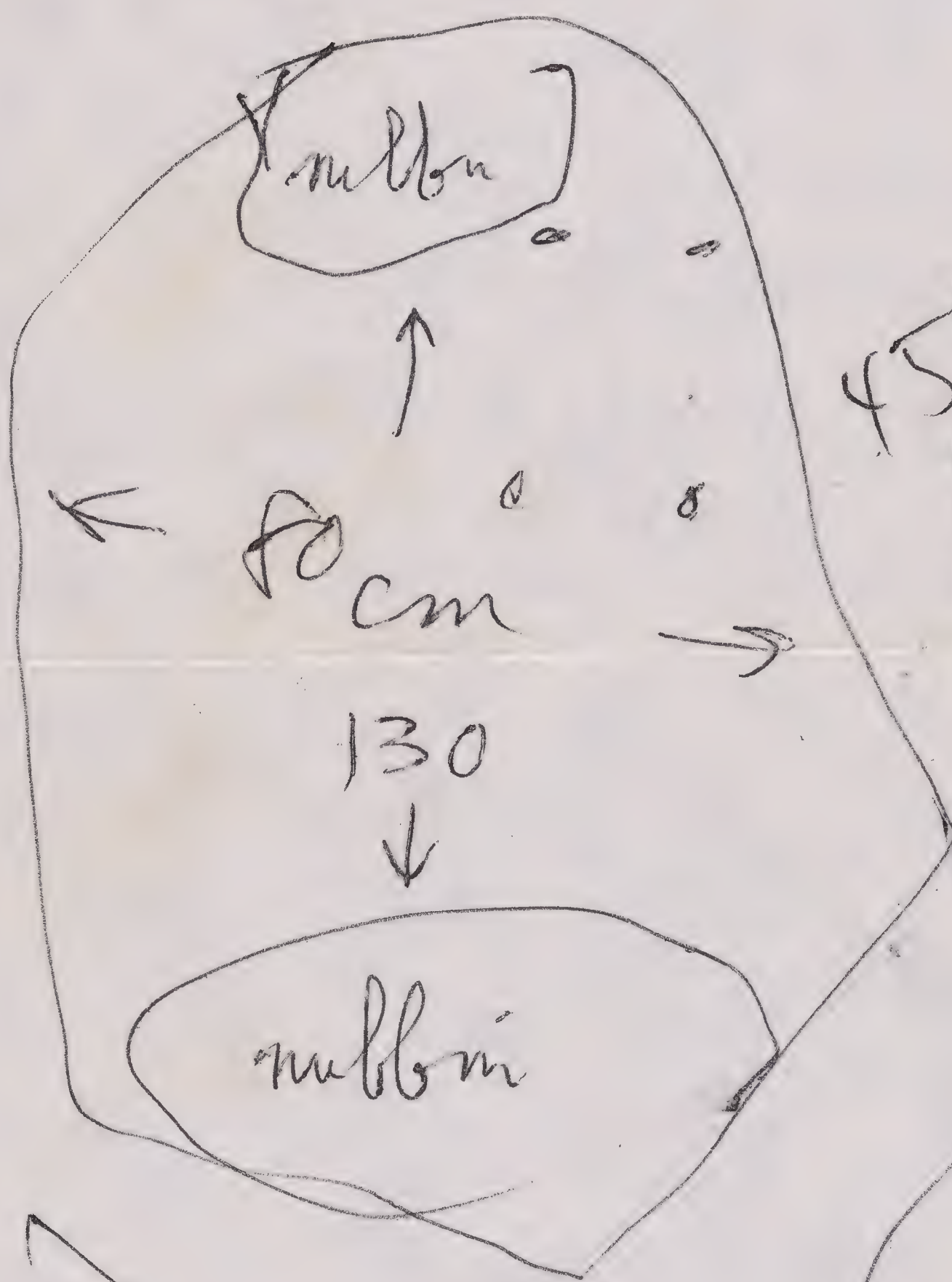
13 Q 9

14

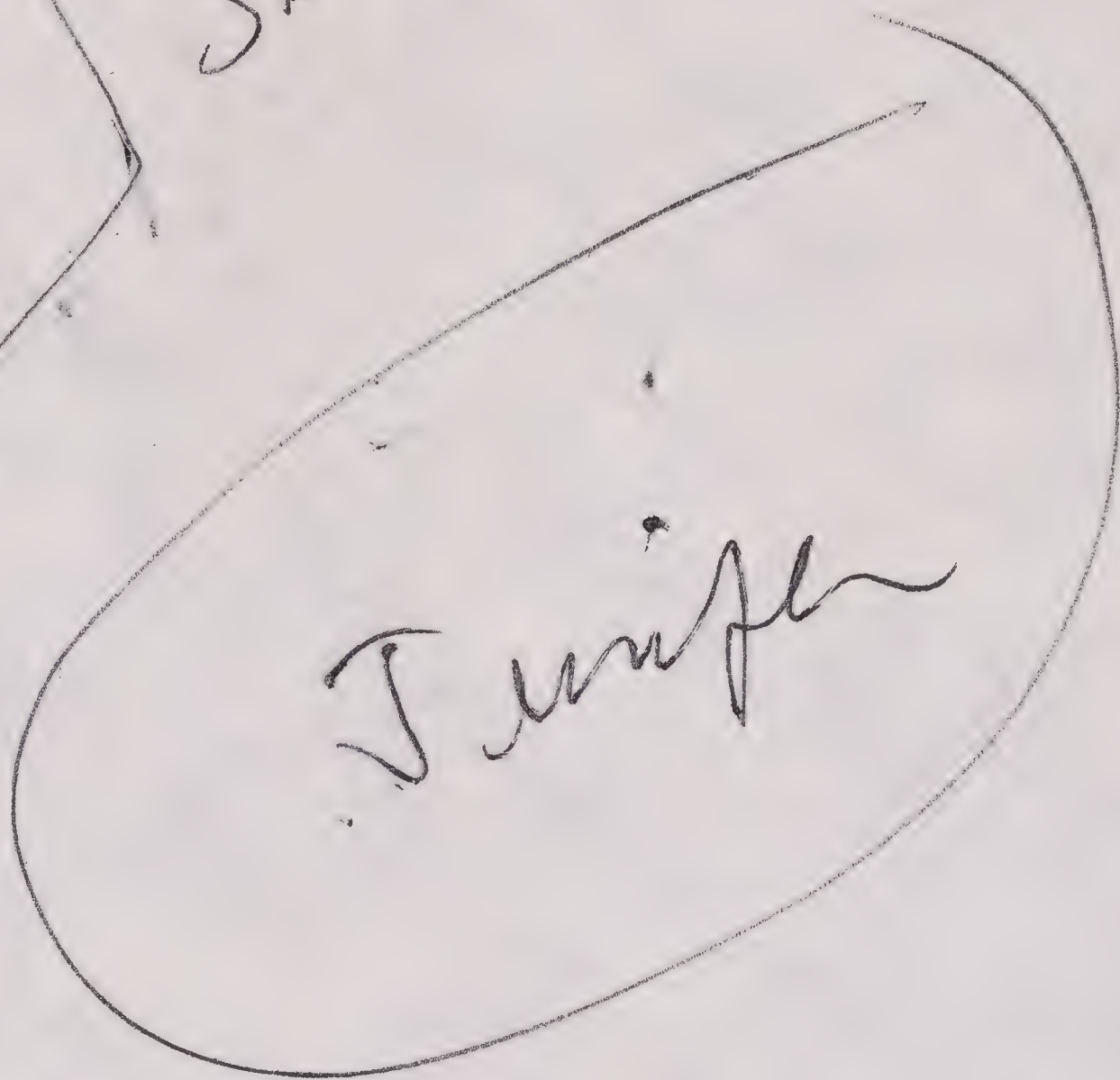
15

16

various poses
from up trail
to down trail
taken from
Trail

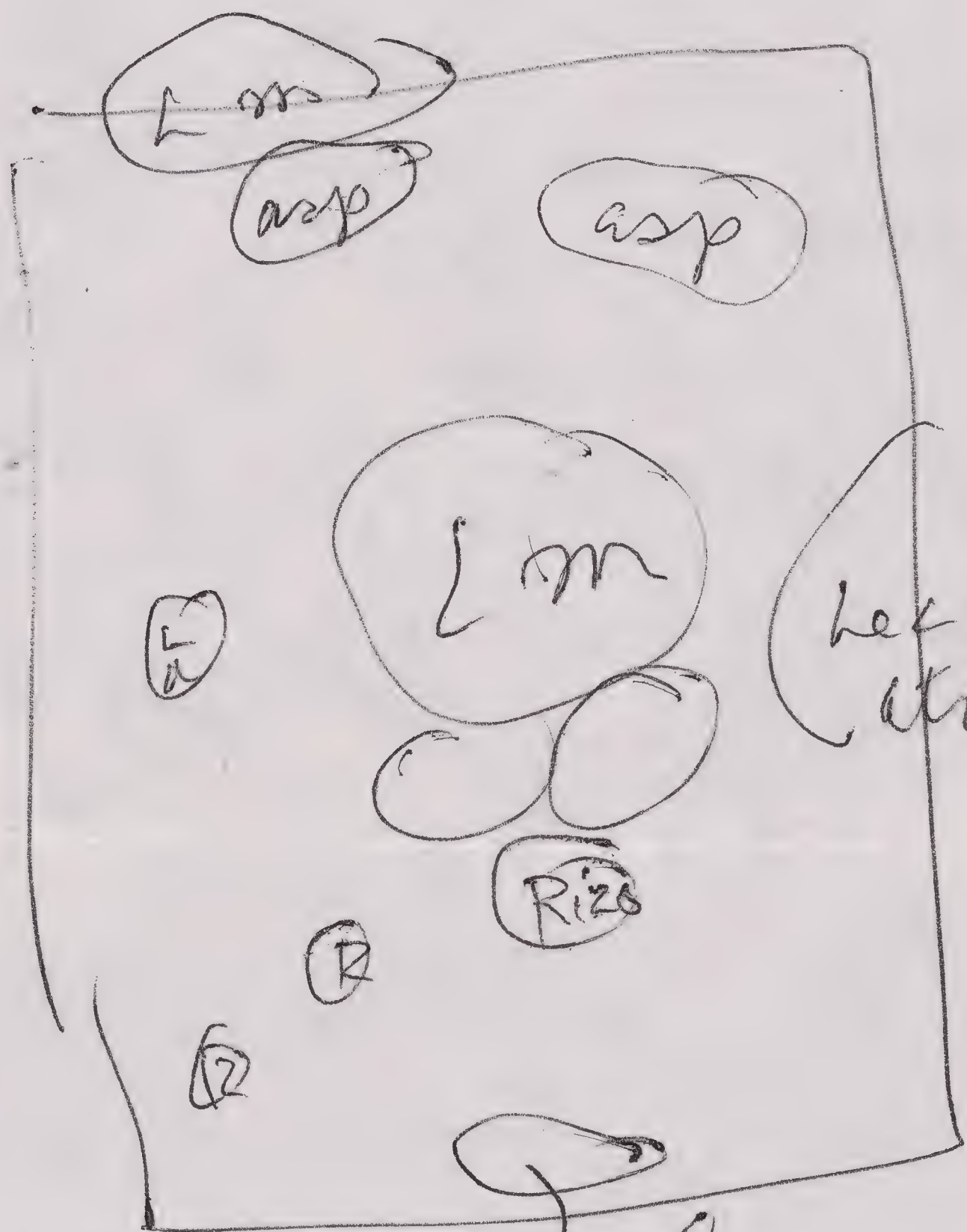


45° slope
flat
SE exposure



over

Trail



+ endothel

hexid
utr

orange calo

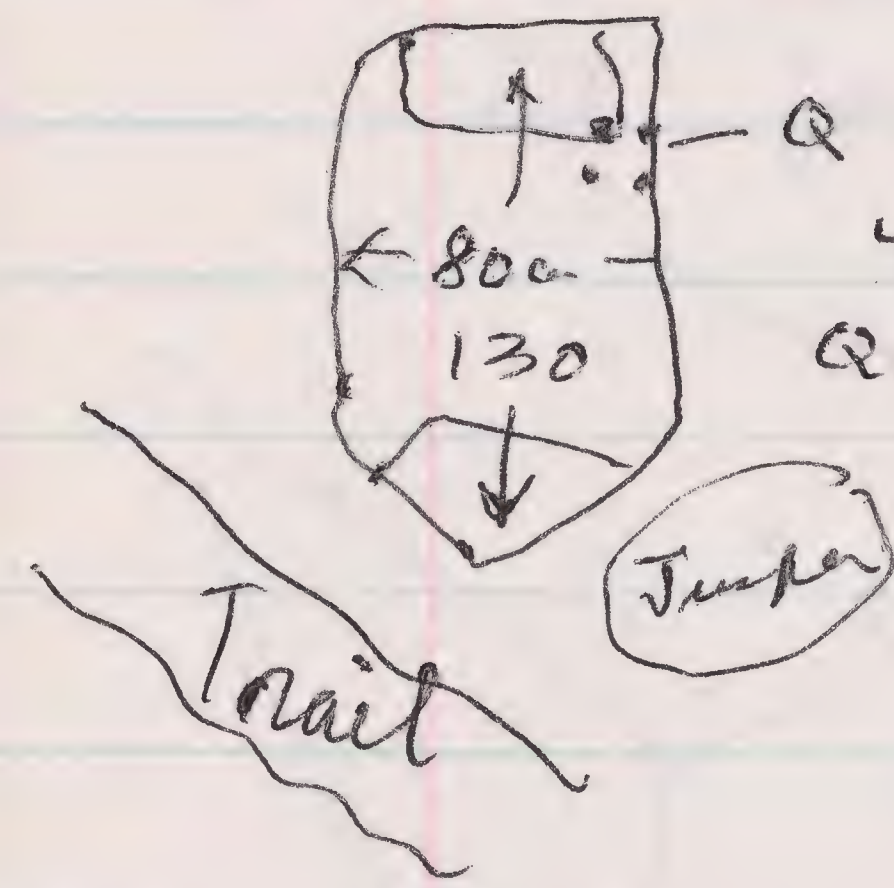
*

23 July

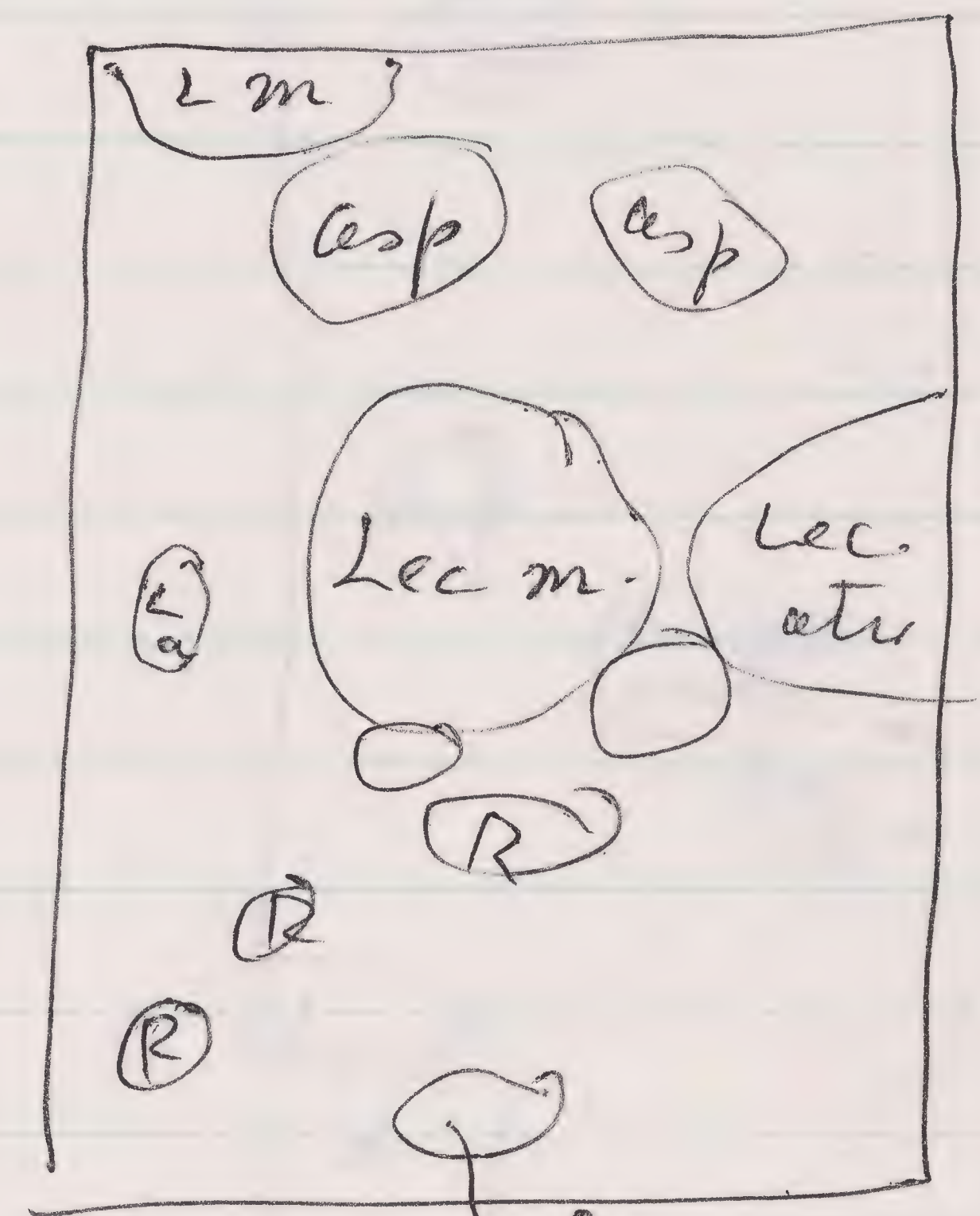
Q 9. Crater Lake, .5 mi down trail from rim, 1st (& last) talus transected by steep path.

Q 9-12, 13 fotos

14-16 various poses from trail 3 m up, opp. & 3 m down for aspect



45° SE slope
Quartzite rock



+ endoletr

OK

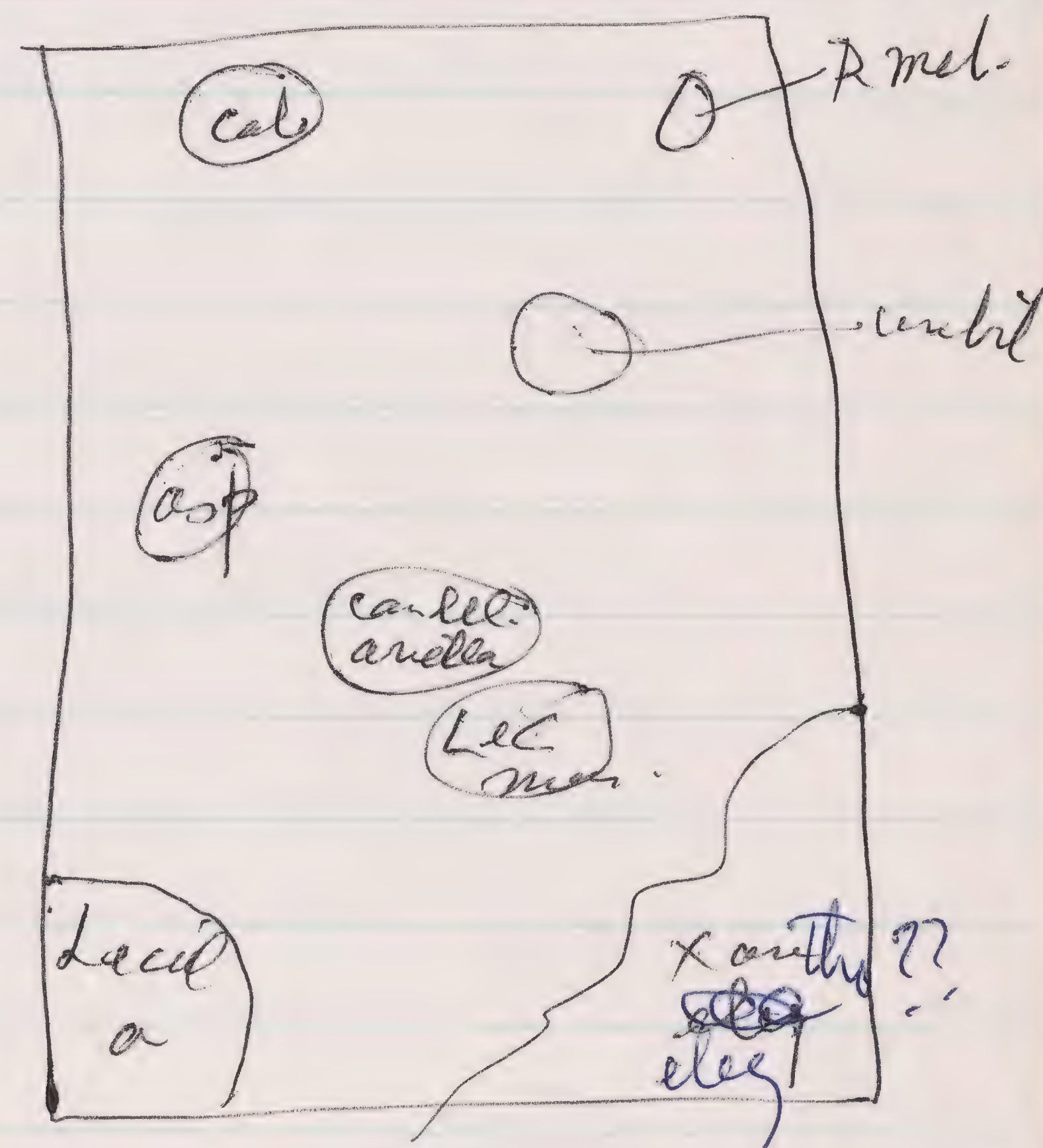
23 July

Q. 10 Crater lake, ca. 1 mi down from rim, 1st ledge (2 big dead spruces) on right going down, west end of w. ledge.

18-19 (Rills) Q. 10

20-21 persp. + close up of whole rock.

22 facing ledge 2 m away to E (X. elegans)



Mass samples!

1. Xantho - Wall Lake
2. Xantho - Trappers Lake talus
3. Xantho - Wall Lake trail
4. Xantho - Wall Lake trail talus
5. Xantho - Blair Mtn. (quartzite-sandstone)
6. Xantho - Crater Lake (quartzite)
7. Xantho - Slide Lake (volcanic)
8. Xantho - begin'g SF trail
9. Xantho - 1.7 mi. at granite
10. Xantho - Indian camp
11. " "
12. " "

1. *Peltigera aphthosa* } wall Lake Trail

2. *Usnea*

3. *Usnea* - Blair Mtn.

4. *Rhizoplaca melanura* " "

5. *Usnea* - Meadow Creek

6. *Rhizoplaca chrysolaema* granite

7. *Rhizoplaca chelophora* - Indian camp

8. *Umbilicaria hirsuta* - Indian Camp

9.

12. } Xantho - Zirkle
13. }

14. Xantho - Stillwater

1. *Thymus*

- 1. *Thymus*
- 2. *Thymus*
- 3. *Thymus*
- 4. *Thymus*
- 5. *Thymus*
- 6. *Thymus*
- 7. *Thymus*
- 8. *Thymus*
- 9. *Thymus*

10. *Thymus*

11. *Thymus*

12. *Thymus*

13. *Thymus*

14. *Thymus*

15. *Thymus*

16. *Thymus*

17. *Thymus*

18. *Thymus*

19. *Thymus*

2. *Thymus*

- 1. *Thymus*
- 2. *Thymus*
- 3. *Thymus*
- 4. *Thymus*
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- 9. *Thymus*

10. *Thymus*

11. *Thymus*

12. *Thymus*

13. *Thymus*

14. *Thymus*

15. *Thymus*

16. *Thymus*

17. *Thymus*

18. *Thymus*

19. *Thymus*

Fri. at South Fork.

Sat. go to Deep Lake

Sun. Hike.

Mon. Hike

Tues. Curate

Wed. Lv. campsite to Steamboat Springs

Thurs. Mt. Zirkle

alt.

Sat. curate at SF

Sun. Drive to Deep Lake

Mon. Hike Indian Camp

Tues. misc + curate

USEFUL INFORMATION

LIQUID MEASURE

4 gills (gi.) = 1 pint (pt.)
2 pints = 1 quart (qt.)
4 quarts = 1 gallon (gal.)
3 1/2 gallons = 1 barrel (bbl.)
2 barrels = 1 hogshead (hhd.)
1 cubic foot of water = 7.48 gallons
1 cubic foot of water weighs approximately 62 1/2 pounds.

CUBIC MEASURE

1728 cubic inches = 1 cubic foot (cu. in.) (cu. ft.)
27 cubic feet = 1 cubic yard (cu. yd.)
16 cubic feet = 1 cord foot of wood
128 cubic feet = 1 cord of wood
or 8 cord feet

NOTE:—A cord of wood is equivalent to a pile 8 feet long, 4 feet wide, and 4 feet high.

24 3/4 cubic feet = 1 perch (P.)
NOTE:—A perch of stone or brick is equivalent to a section 16 1/2 feet long, 1 1/2 feet wide, and 1 foot high. The unit is sometimes understood to mean 16 1/2 cubic feet and sometimes 25 cubic feet.

40 cubic feet = 1 measurement ton, feet = U. S. Shipping

42 cubic feet = 1 ton British or Shipping

40 feet of round timber, or 50 feet of hewn timber = 1 ton or load

AVOIRDUPOIS WEIGHT

(Used in weighing all articles except drugs, gold, silver and precious stones)
27-11/32 grains (gr.) = 1 dram (dr.)
16 drams = 1 ounce (oz.)
16 ounces = 1 pound (lb.)
25 pounds = 1 quarter (qr.)
4 quarters = 1 hundredweight (cwt.)
2000 pounds or 20 hundredweight = 1 ton (T.)

NOTE:—The ton and hundredweight above given are those in common use in the United States.

2240 pounds = 1 long ton (L. T.)
13 1/4 cubic feet of air weighs = 1 pound

NOTE:—The grain has the same value in the Avoirdupois, Apothecaries' and Troy systems.

MISCELLANEOUS

12 units = 1 dozen
12 dozen = 1 gross
12 gross = 1 great gross
20 units = 1 score
4 inches = 1 hand
Diameter of circle x 3.1416 = circumference
Circumference of circle x .3183 = diameter
Diameter of circle squared x .7854 = area
Atmospheric pressure is 14.7 lbs. per square inch at sea level.

SQUARE MEASURE

144 square inches = 1 square foot (sq. ft.)
9 square feet = 1 square yard (sq. yd.)
30 1/4 square yards or 272 1/4 square feet = 1 square rod or 1 perch

40 square rods = 1 rood (R.)
160 square rods = 1 acre (A.)
640 acres = 1 square mile (sq. mi.)

A square having an area of 1 acre, measures 208.71 feet on each side.
1 township = 36 sections each 1 mile square
1 section = 640 acres
1/4 section = 1/2 mile square or 160 acres

1/8 section = 1/2 mile long and 1/4 mile wide or 80 acres
1 acre = 4840 square yards
1 acre = a lot 208.71 feet square

LINEAR MEASURE

1/12 inch = 1 line
12 inches = 1 foot (ft.)
3 feet = 1 yard (yd.)
5 1/2 yards or 16 1/2 feet = 1 rod (rd.) or pole
40 rods (660 feet) = 1 furlong (fur.)
320 rods (5280 feet) = 1 statute mile (m.) or 8 furlongs
3 miles = 1 league
6 feet = 1 fathom
120 fathoms = 1 cable-length
7 1/2 cables = 1 statute mile
5280 feet = 1 statute mile
6080.2 feet = 1 geographical or nautical mile
1 geographical mile = 1.15155 statute mile
60 geographical miles = 1 degree longitude at equator
360 degrees = circumference of earth at equator

CIRCULAR MEASURE

60 seconds (") = 1 minute (')
60 minutes = 1 degree (°)
90 degrees = 1 quadrant
360 degrees = 1 circumference
A degree of the earth's surface on a meridian equals approximately 69 miles.

APOTHECARIES' FLUID MEASURE

60 minims = 1 fluid dram
8 fluid drams = 1 fluid ounce
16 fluid ounces = 1 pint
8 pints = 1 gallon

MULTIPLICATION TABLE

1	2	3	4	5	6	7	8	9	10	11	12
2	4	6	8	10	12	14	16	18	20	22	24
3	6	9	12	15	18	21	24	27	30	33	36
4	8	12	16	20	24	28	32	36	40	44	48
5	10	15	20	25	30	35	40	45	50	55	60
6	12	18	24	30	36	42	48	54	60	66	72
7	14	21	28	35	42	49	56	63	70	77	84
8	16	24	32	40	48	56	64	72	80	88	96
9	18	27	36	45	54	63	72	81	90	99	108
10	20	30	40	50	60	70	80	90	100	110	120
11	22	33	44	55	66	77	88	99	110	121	132
12	24	36	48	60	72	84	96	108	120	132	144

PHILNOR
PHARMACY

115

Graham 6

On granitic outcrops along road
on Rt 366,

(6.9 m SW Jct Rt 666.1 Road to Mt
Graham) Coronado Nat Forest (Sg Safford)

Elev. 4500'

27 Mar.

(9)

Graham 6

On granitic outcrops

on Rt 366, 7.2 m SW Jct 666 (Sg Safford)

elev. 4700'

(8)

27 Mar

Gila Co.

Xantho

on low granite outcrops in open scrub.

on Rt 366 to Mt. Graham (S. of Safford).

elev. 4500'.

27 March

Gila Co.

Xantho

on granitic outcrops. ~~on the~~ along highway

8 mi NW Globe on W side of Rt. 88.

elev. ca 3000'.

27 Mar.

(3)

Cochise Co.

Xantho

on roadside outcrop
3.6 mi N entrance to PCLLS of Elgin).
elev ca 5000 m.

28 Mar.

(5)

Gila Co

Xantho

granitic
on roadside outcrop.

36.9 mi ENE of Globe ^{W side of} on Hwy 60.
Salt River Canyon.
Elev. ca 4200 ft.

Hale

27 Mar

(5)

Cochise County

Xanthoparmelia

On low volcanic outcrops in pasture.

at north entrance to Parker Canyon Lake (S of Elgin).
Elev. ca 5000 ft.

Hale _____

28 March 1989

10

Cochise

Xanthop

on volcanic ledge ^{in pasture} along road.

9 mi E of PCL on road to
Sierra Vista (W of Coronado NM).

elev. ca. 5000'

28 Mar

5

Pima Co.

On volcanic outcrops

Organ P C NM: 6.9 mi ^{E of visitor center} on Ajo Mtn drive

elev. 1700 ft.

29 Mar.

(6)

Pima

On volcanic outcrops

O P C NM: 5 mi E of visitor center;
large outcrop off Ajo Mtn Drive (S side).

29 Mar.

(3)

Gila Co.

On boulders in talus above river

Salt River crossing on E side of Rt. 88 (N of Globe).
(road to Roosevelt Lake).

elev. ca. 3200 ft.

27 Mar.

(7)